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# The AFGL Four Color Infrared Sky Survey: Supplemental Catalog

STEPHAN D. PRICE

12 July 1977

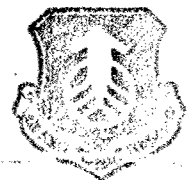
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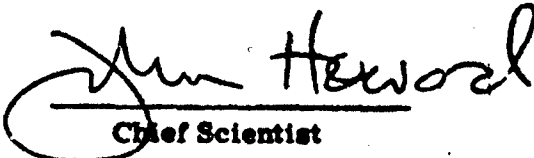


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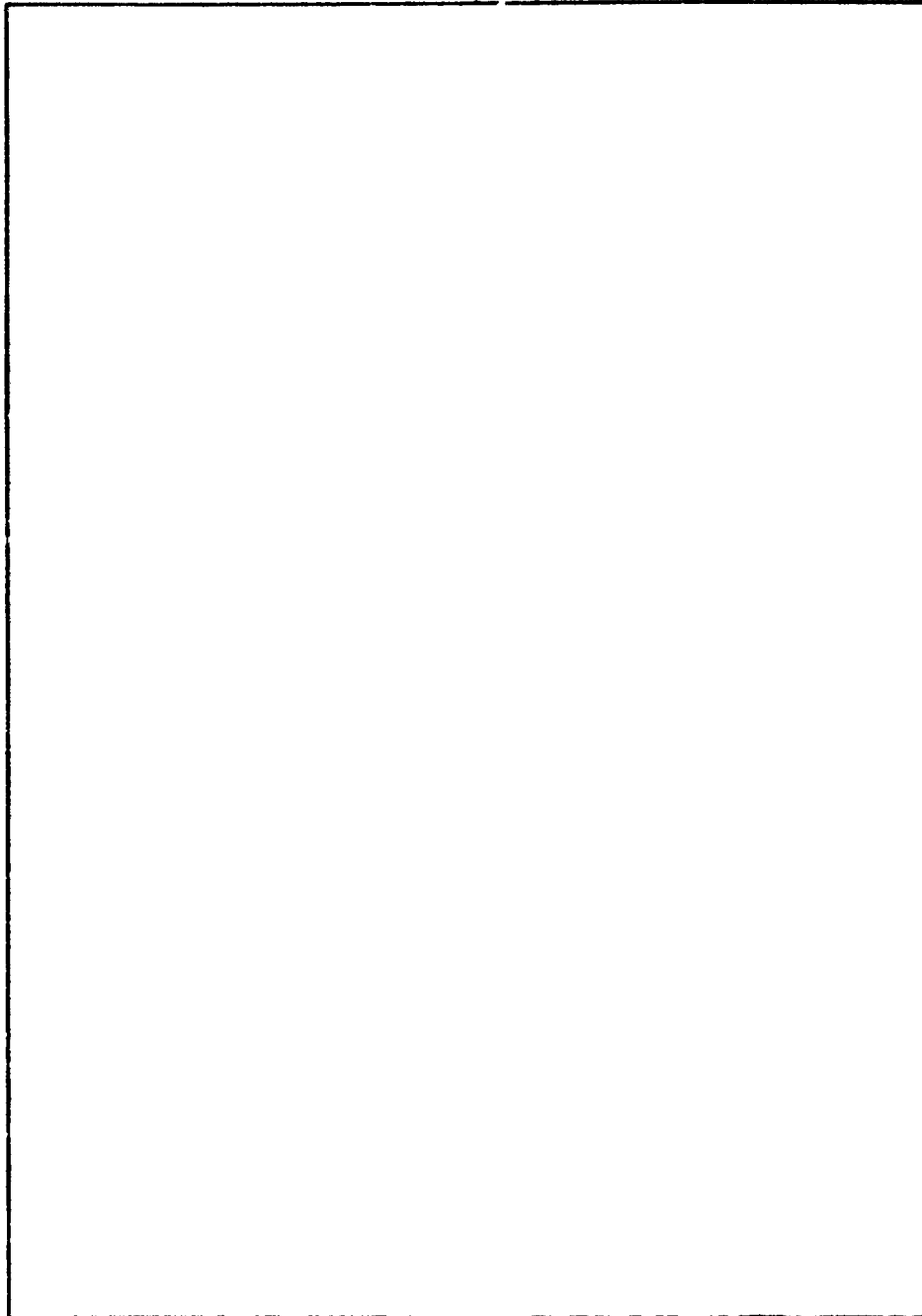
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## Preface

The sources which comprise this supplemental catalog were selected from those eliminated in the final data reduction processing. The list of objects which passed this routine were compiled into the AFGL catalog. Several pieces of private correspondence and articles in the literature indicated that certain sources should have been included in the AFGL catalog but were not. These sources were subsequently found in the supplemental list. It was then decided to publish this catalog despite the high number of false entries because it is known to contain several real sources with unusual characteristics and is expected to have more.

I would like to express my gratitude to Dr. Russell G. Walker of NASA, Ames. Many of the selection criteria used to obtain the supplemental sources evolved from our discussions. Mr. Leonard Marcotte deserves particular thanks as his intimate knowledge of data reduction and computer programming facilitated the data management. His patience and efficiency were essential in finalizing this catalog.

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## The AFGL Four Color Infrared Sky Survey: Supplemental Catalog

### 1. INTRODUCTION

Since 1970 the Air Force Geophysics Laboratory has been engaged in a program to survey the sky in the 3 to 30  $\mu\text{m}$  spectral region. Preliminary results of the northern hemisphere portion of the program were published by Walker and Price.<sup>1</sup> The preliminary catalog listed positions and magnitudes in one or more colors at effective wavelengths of 4.2, 11.0, and 19.8  $\mu\text{m}$  on 3198 entries. These data were significantly revised with improved source selection criteria and extended to include the results of two southern hemisphere experiments. These experiments substituted a spectral band with a 27.4  $\mu\text{m}$  effective wavelength for the one centered at 4.2  $\mu\text{m}$ . These revised data have been presented as a four color catalog of Price and Walker,<sup>2</sup> hereafter referred to as the GL Catalog.

A number of sources which were not included in the revised catalog have significant characteristics which make them of interest. This supplemental catalog contains measurements on the positions and magnitude on 2477 of these sources.

(Received for publication 8 July 1977)

1. Walker, R.G., and Price, S.D. (1975) AFCRL-TR-75-0373.
2. Price, S.D., and Walker, R.G. (1976) AFGL-TR-76-0208.

## 2. SOURCE SELECTION

A detailed description of the experimental profile and the data reduction is given by Price and Walker.<sup>2</sup> Briefly-potential sources were selected on the basis that the measured signal amplitude to noise ratio (S/N) exceeded a threshold value chosen by adopting an acceptable false source rate for a gaussian noise distribution. The positions were then updated by cross-checking associations of the sources with objects in the 2.2  $\mu\text{m}$  survey of Neugebauer and Leighton<sup>3</sup> or its extension.<sup>4</sup>

The individual measurements on a source observed on several flights were combined and the signal to noise of the individual observations in a common color were added in quadrature. The sources were then gated to a second, higher threshold. An expected S/N was calculated for each color and each flight which scanned a source and did not re-observe it. A weighted confirmation parameter was obtained in each color by summing the weights assigned to the S/N for each flight. The values of the individual weight were zero if the S/N was less than the lower threshold, one if the S/N was greater than the upper threshold and a half if the S/N was between the two values. With the limited exceptions noted by Price and Walker<sup>2</sup> a source was included in the main catalog only if its value of S/N exceeded the upper threshold and the number of multi-flight observations were greater than the confirmation parameter.

This supplemental catalog contains sources not included in the GL catalog which fall into the following categories:

- (1) Sources which exceed a S/N threshold ten percent lower than required for inclusion in the GL catalog and satisfy the confirmation criterion.
- (2) Sources rejected from the GL catalog on the basis of the confirmation criterion which have either observations in the same color on two separate flights or the number of observations which equals the weighted confirmation parameter.
- (3) Sources which are observed at 4.2  $\mu\text{m}$  and are associated with objects in the 2.2  $\mu\text{m}$  survey of Neugebauer and Leighton<sup>3</sup> or its extension Neugebauer,<sup>4</sup>
- (4) Sources associated with variable stars of either late spectral class or embedded in nebulosity.

In each of these categories sources were eliminated based upon subjective judgement on the quality of the observation.

The rationale of the first two criteria is that there are inherent inaccuracies in calculating the statistical parameters used in source selection. There is the random measurement error in determining the signal amplitude and the noise. Positional uncertainties may have resulted in using the wrong detector to determine

3. Neugebauer, G., and Leighton, R. B. (1969) Two Micron Sky Survey, A Preliminary Catalog. NASA-SP-3047.

4. Neugebauer, G. (1971) Private Communication.



the expected signal-to-noise ratio for the flights which failed to re-observe the object. In the extreme, a difference of a factor two in the expected signal-to-noise could have resulted.

The final three categories select sources associated with objects known, or suspected to be bright in the infrared.

It is difficult to estimate the number of false entries in the catalog because of the subjective bias in selecting the entries. It is estimated that 25 to 30 percent of the sources which are included because of their associations may have fortuitous positional agreement. A possible indication of the false entry rate may be obtained from the fact that about 370 of the sources which are common with the catalog of Walker and Price<sup>1</sup> and this supplement or the GL catalog have been searched for with ground based instruments and not found. About 42 percent of the unconfirmed sources in the GL catalog are located within 5 degrees latitude of the galactic equator while the 160 unconfirmed sources in the supplement are uniformly distributed in latitude. Low et al<sup>5</sup> and Lebofsky et al<sup>6</sup> have questioned the reality of the high galactic latitude sources. On the other hand, to date the ground based searches have confirmed 16 sources in the supplement.

### 3. SUPPLEMENTAL CATALOG

The catalog is divided into three sections; the main Table of Observations, the observing record of Multiply Observed Sources, and a Remarks section. There are 2477 entries with observations of 1872 sources at 4.2  $\mu$ m, 547 at 11.0  $\mu$ m, 517 at 19.8  $\mu$ m and 31 sources at 27.4  $\mu$ m. Of the 2477 sources a little more than half, 1318, are associated with IRC objects. An additional 275 sources have variable star or NGC/IC associations while 884 are unassociated. Only 428 entries have observations in more than one color, 33 sources have three color observations.

#### 3.1 Contents of Table of Observations Section (See Appendix A)

##### Column 1 - Catalog Numbers

The sources are arranged in right ascension. Approximately 25 percent of the supplemental table contains sources which are in common with the CRL catalog of Walker and Price.<sup>1</sup> To avoid confusion the CRL number has been preserved with an S appended. The new sources are numbered serially beginning at .001S.

5. Low, F.J., Kurtz, R.F., Vrba, F.J., and Rieke, G.H. (1976) Ap. J. 206:L153.

6. Lebofsky, M.J., Kleinmann, S.G., Rieke, G.H., and Low, F.J. (1976) Ap. J. 206:L157.

#### Columns 2 and 5 Coordinates

The measured right ascension and declination, for epoch 1950, are given in Columns 2 and 3 respectively. The positions for the multiply observed sources are averages of the individual positions.

Estimates of the positional uncertainties in right ascension are given in Column 4 (labeled EA) to the nearest second of time and for declination to the decimal min of arc in column 5 (ED). These positional uncertainties are essentially the effective resolution of a detector transformed from the rocket coordinate system to celestial coordinates. The elevation error is  $\pm 0.85$  or  $\pm 3.55$  arc min depending on whether or not the source was observed to transit the region where the detectors overlap. The azimuth error corresponds to the error in time in determining the signal peak (1.3 arc min at the equator). The individual errors were combined with the rms of the individual positions about the mean for multiply observed sources.

#### Columns 6 through 9 - Magnitudes

The measured magnitudes and, in parenthesis, their associated errors are given in these columns. The  $4.2 \mu\text{m}$  magnitude and its error is listed in Column 6, the  $11.0 \mu\text{m}$  values in Column 7, the  $19.8 \mu\text{m}$  measurements in Column 8 and Column 9 gives the  $27.4 \mu\text{m}$  values.

A blank entry indicates that the source was not detected in that spectral band. An asterisk designates that the source was not scanned in that color due to system problems. A less than sign (<) means that all measurements in that color were in saturation and, therefore, the tabulated value is a lower limit. The magnitudes for multiply observed sources are brightness averages of the individual measurements.

The calibration of the system has been described by Price and Walker.<sup>2</sup> The magnitude errors are a combination of the random errors of measurements and the calibration error. The relative accuracy was found to be somewhat better than the listed errors.

The adopted fluxes for a zero magnitude star are:

$$\begin{aligned} H(4.2 \mu\text{m}) &= 3.6 \times 10^{-15} \text{ W cm}^{-2} \mu\text{m}^{-1} \\ H(11.0 \mu\text{m}) &= 8.3 \times 10^{-17} \text{ W cm}^{-2} \mu\text{m}^{-1} \\ H(19.8 \mu\text{m}) &= 8.2 \times 10^{-18} \text{ W cm}^{-2} \mu\text{m}^{-1} \\ H(27.4 \mu\text{m}) &= 2.2 \times 10^{-18} \text{ W cm}^{-2} \mu\text{m}^{-1} \end{aligned}$$

#### Columns 10 through 12 - Associations and Comments.

Comments and associations with objects in the IRC, Bright Star and/or other catalogs which have positional associations with the GL source, are given in these columns.

The IRC associations in Column 10 are based on positions given by Neugebauer and Leighton<sup>3</sup> and from an extension of the  $2.2 \mu\text{m}$  survey (designated by an E) of Neugebauer.<sup>4</sup> The Bright Star number and the Bayer and Flamsteed designations are from Hoffleit.<sup>7</sup>

7. Hoffleit, D. (1964) Catalog of Bright Stars, Yale University Obs., 3rd Ed.

The associations in Column 11 are not inclusive but based on a hierarchy of catalogs which are ordered by a subjective estimate of the information content applicable to the source. Thus, an association with a star in the Dearborne catalog ranks highly as that source is known to have a red spectrum. The order of the catalog designation and their references are as follows:

| <u>Order</u> | <u>Prefix or Designation</u>      | <u>Reference</u>                                |
|--------------|-----------------------------------|---|
| 1            | Bayer or Flamstead                | Hoffleit, D. <sup>7</sup>                       |
| 2            | Variable Star                     | Kukarkin, B. V. et al <sup>8, 9</sup>           |
| 3            | DO (Dearborne Observatory)        | Lee, O. J. et al <sup>10, 11, 12</sup>          |
| 4            | GC (General Catalog)              | Boss, B. <sup>13</sup>                          |
| 5            | NGC (Revised New General Catalog) | Sulentic, J. W., and Tifft, W. G. <sup>14</sup> |
|              | IC (Index Catalog)                | Dryer, J. L. E. <sup>15, 16</sup>               |
|              | SHARP                             | Sharpless, S. <sup>17</sup>                     |
|              | RCW                               | Rodgers, A. W. et al <sup>18</sup>              |
|              | BRIGHT NEB                        | Lynds, B. T. <sup>19</sup>                      |
|              | HFE                               | Hoffman, W. F. et al <sup>20</sup>              |
|              | W                                 | Westerhout, G. <sup>21</sup>                    |

The Greek letters  $\mu$  and  $\nu$  are designated MUU and NUU to avoid confusion with variable star designations.

Sources observed to have significant angular extent with respect to the subtense of the detector are denoted with an EO in Column 12. An EO designation does not necessarily apply to all spectral bands and all observations on a source, it just indicates that the source was measured as extended in one or more colors a majority of the times it was observed.

Additional associations with the catalogs of Order 5 above, (NGC, IC, etc), and associations with the Ohio State Radio Catalog, Edition 40 (Dixon)<sup>22</sup> are listed in the remarks sections and are referred to by an R in Column 12.

#### Columns 13 and 14 - Galactic Coordinates

The galactic longitude and latitude, in the  $l^{\text{II}}$  and  $b^{\text{II}}$  system, are given to the nearest degree in Columns 13 and 14 respectively.

#### Column 15 - Observational Record

This nine character word represents the observing log for the source. Each digit represents a flight as follows:

(Because of the large number of references cited above, they will not be listed here. See Reference Page 15 for References 8 through 22.)

| <u>Character No.</u> | <u>Greenwich Data</u> | <u>Julian Date</u> |
|----------------------|-----------------------|--------------------|
| 1                    | 3 April 1971          | 2441044.9          |
| 2                    | 29 June 1971          | 2441131.8          |
| 3                    | 29 October 1971       | 2441253.9          |
| 4                    | 18 January 1972       | 2441334.8          |
| 5                    | 15 April 1972         | 2441422.8          |
| 6                    | 18 August 1972        | 2441547.9          |
| 7                    | 5 December 1972       | 2441656.7          |
| 8                    | 4 September 1974      | 2442205.4          |
| 9                    | 11 September 1974     | 2442302.6          |

A zero designates that the area containing the source was not surveyed on that flight. Detection of a source during a flight is represented by a number in the appropriate character. The value of that number is a coded representation of the colors in which the source was observed. For the first seven flights the 4.2  $\mu\text{m}$  observation was coded 1, the 11.0  $\mu\text{m}$  coded 2, and 19.8  $\mu\text{m}$  coded 4. For the eighth and ninth flights the 27.4  $\mu\text{m}$  observation was coded 1 while the 11.0 and 19.8  $\mu\text{m}$  detections were coded 2 and 4 respectively. The individual codes were added producing a unique value which is detailed as follows:

| <u>Code</u> | <u>Source Observed in Spectral Bands</u>      |
|-------------|---|
| 1           | 4.2 or 27.4 $\mu\text{m}$                     |
| 2           | 11.0 $\mu\text{m}$ only                       |
| 3           | 4.2 plus 11 or 27.4 plus 11.0 $\mu\text{m}$   |
| 4           | 19.8 $\mu\text{m}$ only                       |
| 5           | 4.2 plus 19.8 or 27.4 plus 19.8 $\mu\text{m}$ |
| 6           | 11.0 and 19.8 $\mu\text{m}$                   |
| 7           | All three colors                              |

A question mark (?) in one of these columns means that the position source was scanned but that the noise level was too high for confirmation. A plus (+) designates that the source was scanned on that flight and its calculated signal-to-noise ratio was high enough to permit the source to be seen in at least one of the measured colors but it was not. Note that a plus on one flight may not be for the same color as a plus on another, but denotes a worst case situation.

### 3.2 Contents of Multiple Observed Sources (See Appendix B)

The individual observations for each of the multiply observed sources are given in this section. The table is divided into two data blocks. In each data block, the first column lists the GL number, the next four columns give the measured magnitude at 4.2, 11, 19.8, and 27.4  $\mu\text{m}$  respectively along with their respective estimated errors in parentheses, and the last column gives the Julian date of observation. A blank entry in the magnitude column denotes that the source was not

detected in that color (the 4  $\mu$ m column for flights 8 and 9, and the 27  $\mu$ m column for the rest of the flights are also blanked). An asterisk (\*) signifies that the source was not scanned in that band due to system problems.

### 3.3 Contents of Remarks Section (See Appendix C)

Additional associations of GL sources with "nebular" objects (NGC, IC and etc.) and with version RA40 of the Master List of Radio Sources compiled by Dixon<sup>22</sup> are contained in this section. For an association to be made, the catalog object has to be within the listed right ascension and declination uncertainties from the GL position. The "nebular" associations are listed first then the radio sources are listed in order of proximity to the GL source.

No attempt has been made to select or prioritize the radio catalog references. The data is provided as supplemental information on the GL source. The abbreviations used in the Remarks section (Appendix C) are defined below and are taken from the list supplied by Dixon.<sup>22</sup>

#### Reference List From OSU Radio Catalog Version RA40

| <u>Survey Prefix</u> | <u>References</u>   |
|----------------------|---|
| ADG                  | Altenhoff, W.J., Downes, G.S., Goad, L.E., Maxwell, A., and Rinehart, R. (1970) <u>Astr. Astrophys. Suppl.</u> 1.   |
| BK                   | Beard, M., and Kerr, F.J. (1969) <u>Austr. J. Phys.</u> 22:121.   |
| BP                   | Bailey, J.A., and Pooley, G.G. (1968) <u>M.N.R.A.S.</u> 138:51.   |
| BTD                  | Beard, M., Thomas, B.M., and Day, G.A. (1969) <u>Austr. J. Phys. Astrophys. Suppl.</u> 11.  |
| B2                   | Colla, G., Fanti, C., Fanti, R., Ficarra, A., Formiggini, L., Gandolfi, E., Grueff, G., Lari, C., Padrelli, L., Roffi, G., Tomasi, P., and Vigotti, M. (1970) <u>Astron. Astrophys. Suppl.</u> 1:281. |
| B2.2                 | Colla, G., Fanti, C., Fanti, R., Ficarra, A., Formiggini, L., Gandolfi, E., Lari, C., Marano, B., Padrielli, L., and Tomasi, P. (1972) <u>Astron. Astrophys. Suppl.</u> 1:1.                          |
| B2.3                 | Colla, G., Fanti, C., Fanti, R., Ficarra, A., Formiggini, L., Gandolfi, E., Lari, C., Marano, B., Padrielli, L., and Tomasi, P. (1973) <u>Astron. Astrophys. Suppl.</u> 11:291.                       |
| DA                   | Galt, J.A., and Kennedy, J.E.D. (1968) <u>A.J.</u> 73:135.  |
| DCC                  | Day, G.A., Cashwell, J.L., and Cooke, D.J. (1972) <u>Austr. J. Phys. Astrophys. Suppl.</u> 25.  |
| DKM                  | Milne, D.K. (1971) <u>Austr. J. Phys.</u> 24.   |
| DM                   | Downes, D., and Maxwell, A. (1966) <u>Ap. J.</u> 146:653.   |
| DTG                  | Day, G.A., Thomas, B.M.A., and Goss, W.M. (1969) <u>Austr. J. Phys. Astrophys., Suppl.</u> 11.  |
| DWC                  | Day, G.A., Warne, W.G., and Cooke, D.J. (1970) <u>Austr. J. Phys. Suppl.</u> 13.  |
| FJ                   | Findlay, L.A., and Jones, B.B. (1973) <u>Austr. J. Phys.</u> 26:389.  |

Reference List From OSU Radio Catalog Version RA40 (Cont)

| <u>Survey<br/>Prefix</u> | <u>References</u>   |
|--------------------------|---|
| GC                       | Davis, M. N. (1971) A. J. <u>76:980.</u>  |
| GD                       | Goss, W. M., and Day, G. A. (1970) <u>Austr. J. Phys. Astrophys. Suppl. 13.</u>   |
| GE                       | Goss, W. M., and Shaver, P. A. (1970) <u>Austr. J. Phys. Astrophys. Suppl. 14:1</u>   |
| HM                       | Hoskins, D. G., and Murdoch, H. S. (1970) <u>Austr. J. Phys. Astrophys. Suppl. 15.</u>  |
| HR                       | Hughes, V. A., and Rutledge, D. (1969) A. J. <u>74:604.</u>   |
| KES                      | Kesteven, M. J. L. (1968) <u>Aust. J. Phys. 21:369.</u>   |
| LHE                      | Long, R. F., Haseler, F. B., and Elsmore, B. (1963) M. N. R. A. S. 125:313. Full list not published.  |
| MC1                      | Davies, F. T. et al (1973) <u>Aust. J. Phys., Astrophys. Suppl. 28.</u>   |
| MM                       | Moran, M. (1965) M. N. R. A. S. <u>129:447.</u>   |
| MSH(1)                   | Mills, B. Y., Slee, O. B., and Hill, E. R. (1958) <u>Aust. J. Phys. 11:360.</u>   |
| MW                       | Wilson, M. (1972) M. N. R. A. S. <u>156:7.</u>  |
| NK                       | Kawajiri, N. (1970) <u>Pub. Ast. Soc. Japan 22:165.</u>   |
| NRAO                     | Pauling-Toth, I. I. K., Wade, C. M., and Heeschen, D. S. (1966) <u>Ap. J. Suppl. 116.</u>   |
| OR-OZ                    | Ehman, J. R., Dixon, R. S., Ramakrishna, C. M., and Kraus, J. D. (1974) A. J. <u>79:144.</u><br>Rinsland, C. P., Dixon, R. S., Gearhart, M. R., and Kraus, J. D. (1974) A. J. <u>79:1129.</u> (References to other portions of the OSU survey are contained in these articles.) |
| PRF                      | Foster, P. R. (1961) <u>Ph. D. Dissertation.</u>  |
| PKS                      | Ekers, J. A. (1969) <u>Aust. J. Phys., Suppl. 7.</u> (References to others PKS surveys contained in this article.)  |
| SG                       | Shaver, P. A., and Goss, W. M. (1970) <u>Aust. J. Phys. Astrophys. Suppl. 14:77.</u>  |
| TD                       | Thomas, B. M. A., and Day, G. A. (1969) <u>Aust. J. Phys. Astrophys. Suppl. 11.</u>   |
| VRO                      | Dickel, J. R., Webber, J. C., Yang, K. S., and Staff (1971) A. J. <u>76:294.</u> (Additional references to the VRO survey in this article.)   |
| 4C(1)                    | Pilkington, J. D. H., and Scott, J. F. (1965) M. N. R. A. S. <u>69:183.</u>   |
| 4C(2)                    | Gower, J. F. R., Scott, P. F., and Wills, D. (1967) M. N. R. A. S. <u>71:49.</u>  |
| 4CP                      | Caswell, . . . <u>Ph. D. Dissertation (1966) University of Cambridge.</u>   |
| 5C(4)                    | Wilson, M. A. G. (1970) M. N. R. A. S. <u>151:1.</u>  |

## References

1. Walker, R.G., and Price, S.D. (1975) AFCRL-TR-75-0373.
2. Price, S.D., and Walker, R.G. (1976) AFGL-TR-76-0208.
3. Neugebauer, G., and Leighton, R.B. (1969) Two Micron Sky Survey, A Preliminary Catalog, NASA-SP-3047.
4. Neugebauer, G. (1971) Private Communication.
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**Appendix A**  
**Table of Observations**

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)    | M(11) | M(20)   | M(27) | IRC    | BS | COMMENTS       | L II | B II | OBS.      | LOG |
|-------|----------|-----------|----|-----|---------|-------|---------|-------|--------|----|----------------|------|------|-----------|-----|
| 40015 | 0 0 10   | 60 24.5   | 32 | 2.8 | 1.3(3)  |       |         |       | 60334  |    | DO 43959       | 117  | -2   | 010700700 |     |
| 25    | 0 0 14   | 73 43.5   | 32 | 2.4 | 1.6(4)  |       |         |       | 70001  |    | DO 44003       | 120  | 11   | 07011700  |     |
| 45    | 0 0 15   | 24 37.2   | 12 | 2.2 |         |       | -3.4(5) |       |        |    |                | 109  | -37  | 00020000+ |     |
| 40025 | 0 0 31   | 58 17.5   | 21 | 1.3 | 1.1(3)  |       |         |       |        |    |                | 117  | -4   | 01010700  |     |
| 40035 | 0 0 31   | 59 27.5   | 31 | 2.6 | 1.3(3)  |       |         |       |        |    |                | 117  | -3   | 010700700 |     |
| 40045 | 0 1 6    | 64 52.7   | 2  | 1.8 | 1.7(4)  |       |         |       | 60002  |    | DO 44055       | 118  | 3    | 040103000 |     |
| 40045 | 0 2 25   | 11 50.7   | 10 | 2.5 | 1.7(5)  |       | -3.1(5) |       |        |    | LC 1529        | 86   | -51  | 00060370  |     |
| 40055 | 0 3 20   | 58 3.4    | 27 | 2.3 | 1.7(4)  |       |         |       |        |    | FG CAS         | 117  | -6   | 00060370  |     |
| 40065 | 0 4 4    | 32 50.5   | 12 | 2.5 | 1.6(4)  |       | -3.2(4) |       |        |    | XY SCL         | 87   | -79  | 000607110 |     |
| 40075 | 0 4 43   | -11 9.8   | 8  | 2.1 | 1.6(3)  |       | -2.0(4) |       |        |    |                | 87   | -71  | 000607120 |     |
| 40085 | 0 5 12   | 1 5.4     | 14 | 3.2 | 1.9(5)  |       |         |       |        |    | DO 16          | 101  | -60  | 000700100 |     |
| 40095 | 0 5 23   | -22 27.0  | 7  | 3.6 | 1.6(4)  |       |         |       | -20002 |    | GC 141         | 58   | -79  | 000700100 |     |
| 40105 | 0 7 9    | -2 54.5   | 15 | 3.4 | 1.7(4)  |       |         |       | 3      |    | DO 30          | 99   | -64  | 000700100 |     |
| 40115 | 0 7 42   | 38 9.1    | 20 | 2.4 | 1.9(3)  |       |         |       |        |    |                | 114  | -24  | 020100300 |     |
| 40125 | 0 7 45   | 71 1.5    | 49 | 2.9 | 1.3(4)  |       |         |       | 70004  |    | DO 22950       | 120  | 9    | 020100300 |     |
| 40135 | 0 8 9    | 33 23.0   | 19 | 2.7 | 1.5(3)  |       |         |       |        |    |                | 113  | -28  | 020100300 |     |
| 40145 | 0 8 9    | 71 9.2    | 47 | 2.2 | 1.6(3)  |       | -1.1(4) |       |        |    |                | 120  | 9    | 020100300 |     |
| 315   | 0 9 7    | 27 57.3   | 18 | 2.9 | 1.6(4)  |       |         |       |        |    |                | 112  | -31  | 020100300 |     |
| 315   | 0 9 11   | -6 17.8   | 18 | 4.0 | 1.0(4)  |       |         |       |        |    |                | 97   | -67  | 020100300 |     |
| 325   | 0 9 33   | 28 8.0    | 18 | 2.8 | 1.3(3)  |       |         |       |        |    | SVS 102315     | 113  | -34  | 020100300 |     |
| 40155 | 0 9 35   | -18 15.5  | 8  | 3.6 | 1.4(4)  |       |         |       |        |    | GC 214         | 76   | -77  | 020100300 |     |
| 40165 | 0 10 1   | 70 42.6   | 17 | 2.9 | 1.9(3)  |       |         |       | -20003 |    | DO 8236        | 111  | -39  | 020100300 |     |
| 40175 | 0 10 4   | 24 52.5   | 18 | 3.0 | 1.9(5)  |       | -3.1(5) |       |        |    | SVS 100008     | 120  | 8    | 020100300 |     |
| 40185 | 0 10 21  | -3 39.7   | 16 | 4.0 | 1.4(3)  |       |         |       |        |    |                | 112  | -37  | 020100300 |     |
| 40195 | 0 11 3   | 73 6.0    | 23 | 1.6 | 1.5(5)  |       |         |       | 4      |    | DO 48          | 100  | -65  | 020100300 |     |
| 40205 | 0 11 17  | -23 17.8  | 15 | 3.9 | 1.7(4)  |       | -2.8(5) |       | 70005  |    |                | 120  | 11   | 010107100 |     |
| 40215 | 0 11 45  | 75 48.5   | 35 | 2.1 | 1.1(4)  |       |         |       | -30004 |    | GC 249         | 38   | -82  | 020100300 |     |
| 40225 | 0 12 44  | 60 57.3   | 23 | 1.9 | 1.6(4)  |       | -7(5)   |       | 60001  |    | DO 22946       | 121  | 13   | 020100300 |     |
| 40235 | 0 12 56  | 66 19.4   | 40 | 2.9 | 1.6(4)  |       | -4(5)   |       |        |    | SHARP. 172     | 119  | -1   | 020100300 |     |
| 40245 | 0 14 26  | -1 34.9   | 19 | 3.4 | 1.7(3)  |       |         |       | 70006  |    |                | 119  | -4   | 020100300 |     |
| 40255 | 0 14 32  | 33 20.9   | 19 | 3.2 | 1.7(3)  |       |         |       |        |    |                | 104  | -63  | 020100300 |     |
| 40265 | 0 15 1   | 33 30.8   | 19 | 3.2 | 1.7(3)  |       |         |       |        |    |                | 115  | -59  | 010100300 |     |
| 40275 | 0 15 29  | 19 57.5   | 17 | 3.0 | 1.7(4)  |       |         |       |        |    | DO 8308        | 112  | -42  | 010100300 |     |
| 40285 | 0 17 53  | 61 35.3   | 18 | 2.1 | 1.2(3)  |       |         |       | 20006  |    | DO 23128       | 119  | -1   | 010100300 |     |
| 40295 | 0 17 59  | 7 53.6    | 16 | 3.3 | 1.2(3)  |       |         |       | 60007  |    | 41 PSC         | 110  | -54  | 000100000 |     |
| 40305 | 0 18 32  | 59 41.4   | 23 | 4.1 | 1.7(3)  |       |         |       | 10003  |    | M2 CAS         | 119  | -3   | 000100000 |     |
| 40315 | 0 18 36  | -2 38.8   | 15 | 3.4 | 1.7(4)  |       |         |       | 60008  |    | DO 78          | 105  | -64  | 000100000 |     |
| 40325 | 0 18 43  | 50 39.4   | 24 | 2.2 | 2.0(4)  |       |         |       | 8      |    | DO 23164       | 118  | -12  | 010100300 |     |
| 40335 | 0 18 56  | 66 38.3   | 24 | 1.8 | 1.4(4)  |       |         |       | 50005  |    | SVS 45         | 123  | 24   | 710477200 |     |
| 40345 | 0 19 20  | 43 53.2   | 22 | 3.0 | 1.7(4)  |       |         |       |        |    |                | 117  | -18  | 010700300 |     |
| 40355 | 0 19 47  | 53 18.9   | 26 | 2.4 | 1.5(3)  |       |         |       | 40007  |    |                | 119  | -9   | 020100300 |     |
| 40365 | 0 20 14  | 69 7.5    | 44 | 2.4 | 1.6(4)  |       | -3.0(5) |       |        |    | BRIGHT MEB. EO | 120  | 7    | 040722200 |     |
| 40375 | 0 20 30  | -16 16.9  | 9  | 2.7 | 1.6(4)  |       |         |       | -20008 |    | GC 459         | 91   | -77  | 040722200 |     |
| 40385 | 0 21 52  | -30 3.9   | 9  | 3.7 | 1.6(4)  |       |         |       | -30008 |    | GC 463         | 8    | -83  | 000001700 |     |
| 40395 | 0 21 52  | -4 56.9   | 15 | 3.4 | 1.2(4)  |       |         |       | 9      |    |                | 106  | -67  | 000100700 |     |
| 40405 | 0 22 32  | -48 33.7  | 16 | 1.9 | 1.2(4)  |       | -8(4)   |       |        |    |                | 116  | -14  | 020200000 |     |
| 40415 | 0 25 12  | -26 3.3   | 8  | 2.7 | -1.5(4) |       | -1.5(4) |       |        |    |                | 332  | -80  | 000302270 |     |
| 40425 | 0 25 25  | -11 55.6  | 9  | 1.9 | -1.7(3) |       | -1.7(3) |       |        |    |                | 102  | -74  | 000403000 |     |
| 40435 | 0 25 27  | -49 52.7  | 25 | 3.0 | -1.7(4) |       | -1.7(4) |       | -10010 |    | SVS 100029     | 313  | -67  | 000500020 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA     | ED | M(4)     | M(11)    | M(20) | M(27) | IRC          | BS  | CONVENTS     | L II | 0 II | OBS       | LOG |
|-------|----------|-----------|--------|----|----------|----------|-------|-------|--------------|-----|--------------|------|------|-----------|-----|
| 40345 | 0 25 47  | 16 12 2   | 17 3.3 |    | 2 0(.4)  | -1.0(.4) |       |       | 26002        | 106 | 48 PSC       | 115  | -46  | 000100000 |     |
| 40355 | 0 26 0   | -40 13.1  | 9 1.8  |    | 1 3(.3)  |          |       |       | -46006E      | 109 | GC 558       | 322  | -76  | 000003700 |     |
| 745   | 0 27 5   | 57 0 0    | 20 1.9 |    | 1 7(.3)  |          |       |       | NS CAS       |     | NS CAS       | 120  | -5   | 010100700 |     |
| 795   | 0 28 23  | 76 18.2   | 35 2.2 |    | 1 4(.3)  |          |       |       | DO 23435     |     | DO 23435     | 12   | 14   | 010112700 |     |
| 40365 | 0 29 16  | 13 22.0   | 10 2.4 |    | 1 7(.4)  |          |       |       | DO 8404      |     | DO 8404      | 117  | -43  | 000100000 |     |
| 40375 | 0 29 26  | 14 19.4   | 17 3.4 |    | 1 8(.4)  |          |       |       | Y PSC        |     | Y PSC        | 116  | -48  | 000100000 |     |
| 40385 | 0 30 8   | 50 53.9   | 24 2.5 |    | 2 0(.4)  |          |       |       | DO 23463     |     | DO 23463     | 120  | -12  | 0 7103000 |     |
| 40395 | 0 31 14  | -29 51.7  | 10 3.8 |    | 1 8(.4)  |          |       |       | 50709        |     | 50709        | 0    | -69  | 000001700 |     |
| 865   | 0 33 0   | 70 15.0   | 24 1.9 |    | 1 2(.4)  |          |       |       | GC 635       |     | GC 635       | 122  | 8    | 02011700  |     |
| 975   | 0 33 30  | -14 44.9  | 10 2.7 |    | 1 5(.3)  |          |       |       | CP CAS, ED   |     | CP CAS, ED   | 106  | -77  | 000107100 |     |
| 40405 | 0 34 56  | -7 31.6   | 11 3.9 |    |          |          |       |       |              |     |              | 115  | -70  | 000704300 |     |
| 915   | 0 35 24  | 63 19.0   | 13 1.9 |    | 1 0(.3)  |          |       |       | DO 23599     |     | DO 23599     | 122  | 6    | 0 7103700 |     |
| 955   | 0 36 28  | 49 4 5    | 16 1.5 |    | 1 5(.3)  |          |       |       | GC 770       |     | GC 770       | 121  | -13  | 0 7103700 |     |
| 40415 | 0 36 52  | -15 44.9  | 15 3.6 |    | 1 4(.3)  |          |       |       | SVS 74       |     | SVS 74       | 109  | -78  | 000107700 |     |
| 975   | 0 36 59  | 71 47.8   | 27 2.2 |    |          |          |       |       |              |     |              | 122  | 9    | 020722700 |     |
| 40425 | 0 37 37  | 54 30.0   | 27 2.9 |    | 1 8(.3)  |          |       |       |              |     |              | 121  | -8   | 0 7103000 |     |
| 1015  | 0 37 49  | 36 55.7   | 19 2.5 |    | 1 7(.3)  |          |       |       |              |     |              | 121  | -26  | 0 7103000 |     |
| 1035  | 0 38 7   | 23 57.2   | 15 3.6 |    |          |          |       |       |              |     |              | 116  | -66  | 000000000 |     |
| 40435 | 0 38 53  | -46 26.4  | 15 3.9 |    | 1 2(.4)  |          |       |       | WU PHE       |     | WU PHE       | 308  | -71  | 000000100 |     |
| 40445 | 0 39 30  | -9 55.3   | 15 4.1 |    | 1 4(.5)  |          |       |       | AI CET       |     | AI CET       | 115  | -72  | 000007100 |     |
| 40455 | 0 41 58  | -79 38.7  | 87 2.6 |    |          |          |       |       |              |     |              | 303  | -38  | 000000000 |     |
| 40465 | 0 42 1   | 38 51.5   | 9 2.2  |    | 1 7(.3)  |          |       |       |              |     |              | 122  | -71  | 0 7103700 |     |
| 40475 | 0 42 50  | 58 9.2    | 26 1.6 |    | 1 4(.3)  |          |       |       |              |     |              | 122  | -4   | 0 7103700 |     |
| 40485 | 0 43 4   | -4 52.7   | 15 3.6 |    | 1 6(.3)  |          |       |       |              |     |              | 119  | -67  | 000100000 |     |
| 40495 | 0 43 16  | 57 43.9   | 31 3.1 |    | 1 8(.4)  |          |       |       | GC 905       |     | GC 905       | 122  | -5   | 0 7103700 |     |
| 40505 | 0 43 45  | 47 57.1   | 23 2.5 |    | 1 9(.4)  |          |       |       | DO 23736, ED |     | DO 23736, ED | 122  | -15  | 0 7103700 |     |
| 40515 | 0 43 50  | -17 19.2  | 15 3.6 |    | 1 2(.3)  |          |       |       | U CAS        |     | U CAS        | 122  | -15  | 0 7103700 |     |
| 40525 | 0 44 29  | 23 58.2   | 18 3.2 |    | 1 3(.3)  |          |       |       |              |     |              | 116  | -80  | 000100700 |     |
| 40535 | 0 44 56  | 53 15.4   | 27 2.9 |    | 1 6(.3)  |          |       |       | 26013        |     | 26013        | 122  | -39  | 000100000 |     |
| 1105  | 0 45 31  | 8 24.4    | 16 3.6 |    |          |          |       |       | 50315        |     | 50315        | 122  | -9   | 0 7103700 |     |
| 1125  | 0 46 13  | 57 31.5   | 16 1.9 |    | 1 5(.3)  |          |       |       |              |     |              | 122  | -54  | 000100000 |     |
| 40545 | 0 46 53  | -10 54.7  | 12 4.0 |    | 1 6(.3)  |          |       |       | ETA CAS      |     | ETA CAS      | 123  | -5   | 0 7103700 |     |
| 1145  | 0 46 56  | 64 27.2   | 26 2.2 |    | 2 2(.4)  |          |       |       | SHARP, 182   |     | SHARP, 182   | 121  | -74  | 000100700 |     |
| 40555 | 0 47 10  | -13 47.8  | 15 3.6 |    | 1 6(.3)  |          |       |       | GC 984       |     | GC 984       | 123  | 2    | 020100700 |     |
| 40565 | 0 47 31  | 44 27.8   | 21 2.3 |    | 1 3(.3)  |          |       |       |              |     |              | 121  | -76  | 000100700 |     |
| 1195  | 0 49 6   | 56 17.0   | 20 2.1 |    | 1 6(.3)  |          |       |       |              |     |              | 123  | -18  | 0 7103700 |     |
| 40575 | 0 49 31  | 47 45.2   | 23 2.6 |    | 1 8(.3)  |          |       |       |              |     |              | 123  | -6   | 0 7103700 |     |
| 40585 | 0 50 3   | 53 24.8   | 25 1.6 |    | 1 5(.3)  |          |       |       |              |     |              | 123  | -15  | 0 7103700 |     |
| 40595 | 0 50 9   | -24 17.0  | 13 3.9 |    | 1 7(.4)  |          |       |       | V452 CAS     |     | V452 CAS     | 123  | -9   | 0 7103700 |     |
| 40605 | 0 50 10  | 44 50.5   | 21 2.4 |    | 1 3(.3)  |          |       |       | GC 1051      |     | GC 1051      | 128  | -87  | 000001700 |     |
| 1255  | 0 50 48  | 52 23.3   | 18 2.1 |    | 1 6(.3)  |          |       |       | DO 23856     |     | DO 23856     | 123  | -18  | 0 7103700 |     |
| 40615 | 0 50 57  | 73 52.6   | 21 3.6 |    | 1 7(.4)  |          |       |       |              |     |              | 123  | -10  | 0 7103700 |     |
| 40625 | 0 52 4   | 58 17.3   | 31 3.3 |    | 2 0(.4)  |          |       |       | GC 1063      |     | GC 1063      | 123  | 11   | 0 7103700 |     |
| 1315  | 0 52 45  | -23 50.0  | 8 2.8  |    |          |          |       |       | DO 23870     |     | DO 23870     | 123  | -4   | 0 7103700 |     |
| 40635 | 0 53 0   | -7 34.6   | 10 2.7 |    | -1.6(.4) |          |       |       | IC 1600      |     | IC 1600      | 137  | -86  | 000000000 |     |
| 40645 | 0 53 23  | -65 12.6  | 38 3.0 |    |          |          |       |       | GC 1103      |     | GC 1103      | 126  | -70  | 000000000 |     |
| 40655 | 0 53 29  | -23 1.2   | 13 3.9 |    | 1 6(.5)  |          |       |       |              |     |              | 302  | -52  | 000000000 |     |
| 40665 | 0 53 35  | -11 31.0  | 14 4.1 |    | 1 3(.5)  |          |       |       | GC 1110      |     | GC 1110      | 245  | -89  | 000001700 |     |
| 40675 | 0 54 10  | 26 5.1    | 18 3.1 |    | 1 8(.4)  |          |       |       | PH13 CET     |     | PH13 CET     | 127  | -74  | 000001700 |     |
|       |          |           |        |    |          |          |       |       | DO 8579      |     | DO 8579      | 124  | -37  | 000100000 |     |
|       |          |           |        |    |          |          |       |       |              |     |              | 302  | -56  | 000000040 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1960) | DEC(1960) | LA | ED  | M(4)    | M(11) | M(20)    | M(27) | IRC    | DS  | COMMENTS | L II | B II | OBS.     | LOG |
|-------|----------|-----------|----|-----|---------|-------|----------|-------|--------|-----|----------|------|------|----------|-----|
| 40683 | 0 55 8   | -30 8.7   | 18 | 3.3 |         |       |          |       |        |     |          | 277  | -87  | 000077-1 |     |
| 40695 | 0 56 18  | 39 32.0   | 19 | 2.2 | 1.2(.4) |       | -3.8(.4) |       | 40017  |     | DO 8598  | 125  | -23  | 00010000 |     |
| 40705 | 0 56 42  | 42 33.8   | 10 | 1.5 | 1.8(.4) |       |          |       | 40016  |     | DO 23943 | 125  | -23  | 00010000 |     |
| 1395  | 0 56 58  | 32 38.9   | 19 | 2.7 | 1.3(.3) |       |          |       |        |     |          | 125  | -30  | 00010000 |     |
| 1405  | 0 56 58  | -6 48.7   | 18 | 3.7 |         |       | -4.1(.4) |       |        |     |          | 129  | -71  | 00010000 |     |
| 40715 | 0 57 8   | 6 12.4    | 18 | 3.7 | 1.8(.4) |       |          |       | 10008  | 264 | WV PSC   | 127  | -56  | 00010000 |     |
| 40725 | 0 57 59  | 48 38.9   | 23 | 2.8 | 1.8(.4) |       |          |       | 50022  |     | DO 23957 | 125  | -16  | 00010000 |     |
| 40735 | 0 58 46  | -12 19.8  | 14 | 3.7 | 1.5(.3) |       |          |       |        |     |          | 132  | -75  | 00010000 |     |
| 40745 | 0 59 29  | 69 4.1    | 45 | 3.8 | 1.9(.3) |       |          |       |        |     |          | 124  | -6   | 00010000 |     |
| 1465  | 0 59 33  | 61 34.1   | 21 | 2.5 | 1.4(.4) |       |          |       | 60034  |     | HO CAS   | 124  | -1   | 00010000 |     |
| 40755 | 1 0 1    | 62 49.7   | 23 | 2.7 | 1.7(.4) |       |          |       | 60035  |     | DO 23979 | 124  | 0    | 00010000 |     |
| 40765 | 1 0 1    | 7 34.6    | 16 | 3.6 | 1.9(.5) |       |          |       | 10009  | 264 | EPS PSC  | 128  | -55  | 00010000 |     |
| 40775 | 1 0 27   | -5 6.3    | 15 | 3.7 | 2.3(.5) |       |          |       | -10017 |     | 25 CET   | 130  | -68  | 00010000 |     |
| 40785 | 1 1 12   | 52 15.3   | 25 | 2.5 | 1.3(.4) |       |          |       | 50025  | 268 | GC 1275  | 125  | -10  | 00010000 |     |
| 1505  | 1 1 51   | 28 33.2   | 8  | 1.7 | 1.8(.3) |       |          |       |        |     |          | 126  | -34  | 00010000 |     |
| 1515  | 1 2 8    | -7 3.1    | 10 | 2.6 | 1.1(.3) |       |          |       |        |     |          | 132  | -69  | 00010000 |     |
| 1555  | 1 2 47   | 19 58.9   | 18 | 3.4 | 1.5(.3) |       |          |       |        |     |          | 127  | -43  | 00010000 |     |
| 40795 | 1 3 5    | 49 36.0   | 24 | 3.2 | 1.9(.4) |       |          |       |        |     |          | 125  | -13  | 00010000 |     |
| 40805 | 1 4 21   | 53 15.4   | 26 | 2.8 | 1.4(.4) |       |          |       | 50027  | 318 | GC 1343  | 125  | -9   | 00010000 |     |
| 40815 | 1 4 23   | 48 21.2   | 20 | 1.5 | 1.3(.4) |       |          |       | 50029  |     | E1 AND   | 126  | -17  | 00010000 |     |
| 40825 | 1 4 27   | 49 7.5    | 24 | 3.2 | 1.1(.4) |       |          |       | 50028  |     |          | 126  | -13  | 00010000 |     |
| 1595  | 1 5 2    | -2 6.9    | 15 | 3.7 | 1.5(.3) |       |          |       |        |     |          | 132  | -64  | 00010000 |     |
| 40835 | 1 5 36   | 9 38.2    | 18 | 3.6 | 1.8(.4) |       | -3.6(.4) |       | 10012  |     | DO 158   | 130  | -53  | 00010000 |     |
| 40845 | 1 7 21   | 28 12.4   | 17 | 2.2 | 2.0(.5) |       |          |       | 30020  | 341 | GC 1415  | 128  | -37  | 00010000 |     |
| 40855 | 1 7 22   | -65 24.8  | 38 | 3.1 |         |       | -3.6(.4) |       |        |     |          | 300  | -52  | 00010000 |     |
| 40865 | 1 7 45   | 2 10.6    | 16 | 2.8 | 1.8(.4) |       |          |       | 15     | 347 | 35 CET   | 132  | -60  | 00010000 |     |
| 1685  | 1 7 47   | 10 33.4   | 11 | 2.2 | 1.4(.3) |       |          |       |        |     |          | 130  | -52  | 00010000 |     |
| 40875 | 1 8 25   | 20 41.0   | 18 | 3.4 | 1.6(.4) |       |          |       | 20020  | 361 | P51 PSC  | 129  | -42  | 00010000 |     |
| 40885 | 1 8 20   | -23 46.6  | 19 | 3.4 | 1.6(.4) |       |          |       |        |     |          | 271  | -82  | 00010000 |     |
| 40895 | 1 8 57   | 20 45.5   | 18 | 2.2 | 1.3(.4) |       | -3.6(.8) |       | 20020  | 361 | P51 PSC  | 129  | -42  | 00010000 |     |
| 1705  | 1 9 23   | 21 57.2   | 18 | 3.4 | 1.3(.3) |       |          |       |        |     |          | 129  | -40  | 00010000 |     |
| 1745  | 1 9 52   | -1 9.1    | 15 | 3.7 | 1.6(.3) |       |          |       |        |     |          | 135  | -63  | 00010000 |     |
| 1785  | 1 9 54   | -22 18.4  | 8  | 2.7 | 1.6(.3) |       |          |       |        |     |          | 261  | -83  | 00010000 |     |
| 1785  | 1 10 51  | 13 3.2    | 17 | 2.7 | 2.0(.3) |       |          |       |        |     |          | 131  | -49  | 00010000 |     |
| 1825  | 1 11 4   | -42 8.4   | 10 | 2.0 | 1.2(.4) |       |          |       |        |     |          | 289  | -74  | 00010000 |     |
| 40905 | 1 11 23  | 28 15.6   | 9  | 1.7 | 1.1(.3) |       | -3.6(.4) |       |        |     |          | 125  | -34  | 00010000 |     |
| 40915 | 1 11 51  | 74 58.9   | 81 | 2.8 | 1.6(.4) |       |          |       | 20024  | 363 | DO 8493  | 125  | -12  | 00010000 |     |
| 40925 | 1 12 10  | -7 21.8   | 15 | 3.8 | 1.7(.3) |       |          |       | 70022  |     | DO 24158 | 139  | -69  | 00010000 |     |
| 1655  | 1 12 20  | 78 50.1   | 57 | 2.5 | 1.7(.3) |       |          |       |        |     |          | 124  | -16  | 00010000 |     |
| 40935 | 1 12 36  | 57 45.8   | 16 | 1.8 | 1.1(.4) |       |          |       |        |     |          | 126  | -5   | 00010000 |     |
| 1875  | 1 12 48  | 48 59.2   | 24 | 3.2 | 1.7(.3) |       |          |       |        |     |          | 137  | -13  | 00010000 |     |
| 40945 | 1 14 4   | -13 35.6  | 14 | 2.8 | 1.7(.3) |       |          |       |        |     |          | 147  | -75  | 00010000 |     |
| 1965  | 1 16 10  | -27 33.6  | 12 | 3.8 | 1.3(.3) |       |          |       |        |     |          | 216  | -84  | 00010000 |     |
| 1985  | 1 16 36  | 1 16.3    | 15 | 3.8 | 1.6(.3) |       | -3.6(.8) |       |        |     |          | 137  | -61  | 00010000 |     |
| 40955 | 1 17 8   | 57 15.3   | 16 | 2.2 | 1.4(.3) |       |          |       |        |     |          | 127  | -5   | 00010000 |     |
| 40965 | 1 17 43  | 47 7.9    | 42 | 3.8 | 1.8(.4) |       |          |       | 60045  |     | PP CAS   | 126  | -5   | 00010000 |     |
| 2015  | 1 18 21  | 18 54.9   | 18 | 3.2 | 1.4(.3) |       |          |       | 70025  |     | CI CAS   | 133  | -43  | 00010000 |     |
| 40975 | 1 18 24  | -17 16.0  | 9  | 2.2 | 1.4(.3) |       | -1.3(.4) |       |        |     |          | 158  | -78  | 00010000 |     |
| 2025  | 1 18 41  | 76 37.2   | 48 | 2.4 | 1.5(.3) |       |          |       |        |     |          | 125  | -14  | 00010000 |     |
| 2045  | 1 19 3   | -1 15.7   | 15 | 3.8 | 1.6(.3) |       |          |       |        |     |          | 140  | -63  | 00010000 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)    | M(11) | M(20)    | M(27) | INC        | BS  | COMMENTS   | L   | I   | B         | I | OBS. | LOG |
|-------|----------|-----------|----|-----|---------|-------|----------|-------|------------|-----|------------|-----|-----|-----------|---|------|-----|
|       |          |           |    |     |         |       |          |       |            |     |            |     |     |           |   |      |     |
| 40985 | 1 19 53  | 1 23 5    | 15 | 3.8 | 2.4(.4) |       |          |       | 18         | 392 | GC 1657    | 139 | -60 | 007100000 |   |      |     |
| 40995 | 1 20 4   | -69 15.7  | 45 | 3.1 |         |       | -3.2(.4) |       |            |     |            | 299 | -48 | 000000740 |   |      |     |
| 2035  | 1 20 47  | -9 7      | 14 | 3.8 | 1.6(.3) |       |          |       | -20014     |     | GC 1662    | 147 | -70 | 000107000 |   |      |     |
| 41005 | 1 21 3   | -18 8.6   | 14 | 3.8 | 1.7(.4) |       |          |       | -30014     | 400 | GC 1687    | 163 | -78 | 000107000 |   |      |     |
| 2095  | 1 21 13  | -31 14.4  | 18 | 2.7 | 1.4(.4) |       |          |       |            |     |            | 244 | -82 | 000001100 |   |      |     |
| 2125  | 1 21 39  | 19 1.1    | 13 | 2.4 |         |       | -1.1(.4) |       | 70027      | 389 | PS1 C45    | 134 | -43 | 006000007 |   |      |     |
| 2135  | 1 22 15  | 67 51.5   | 21 | 2.0 | 1.4(.3) |       | -2.6(.4) |       | 10018      |     | IC 0107 EO | 126 | 5   | 0-1127+00 |   |      |     |
| 41015 | 1 22 26  | 14 35.4   | 16 | 2.4 | 1.5(.4) |       |          |       | 60049      |     | DO 24312   | 135 | -47 | 001700000 |   |      |     |
| 41035 | 1 22 51  | 57 20.3   | 31 | 3.6 | 2.2(.4) |       |          |       | -40009E    |     | DO 24312   | 128 | -5  | 071000000 |   |      |     |
| 41035 | 1 22 55  | -46 15.4  | 12 | 3.8 | 1.9(.4) |       |          |       |            |     | GC 1723    | 286 | -70 | 000000100 |   |      |     |
| 41045 | 1 23 15  | 17 34.1   | 9  | 1.8 | 1.3(.3) |       | -1.1(.4) |       |            |     | IC 1701    | 134 | -44 | 00+300007 |   |      |     |
| 41055 | 1 23 49  | -17 13.3  | 14 | 3.8 | 1.5(.3) |       |          |       |            |     | IC 1706    | 163 | -77 | 000107200 |   |      |     |
| 41065 | 1 24 34  | 14 29.9   | 17 | 3.7 |         |       | -8(.4)   |       |            |     |            | 136 | -47 | 007200007 |   |      |     |
| 41075 | 1 25 1   | -22 48.4  | 14 | 3.8 | 1.3(.3) |       | -3.0(.5) |       |            |     |            | 186 | -81 | 000507700 |   |      |     |
| 41085 | 1 25 39  | 7 39.3    | 16 | 3.9 | 1.6(.4) |       |          |       | SVS 100115 |     |            | 139 | -54 | 007100000 |   |      |     |
| 41095 | 1 25 55  | 61 29.0   | 35 | 3.8 | 1.6(.4) |       |          |       | DO 24366   |     |            | 127 | -1  | 071007000 |   |      |     |
| 2215  | 1 26 2   | 79 25.3   | 41 | 2.0 | 1.6(.4) |       | -3.2(.5) |       | 80003      |     | DO 24400   | 125 | 17  | 074117000 |   |      |     |
| 41105 | 1 26 15  | -22 1.1   | 12 | 4.0 |         |       | -3.5(.4) |       |            |     |            | 183 | -80 | 000704700 |   |      |     |
| 2225  | 1 26 36  | 35 40.1   | 18 | 1.8 | 1.7(.3) |       |          |       |            |     |            | 132 | -26 | 001000000 |   |      |     |
| 41115 | 1 27 19  | -47 3.4   | 12 | 3.8 | 1.7(.4) |       |          |       | 435        |     | GC 1813.E0 | 285 | -69 | 000000100 |   |      |     |
| 41125 | 1 28 8   | 14 44.3   | 17 | 3.7 | 1.5(.4) |       |          |       |            |     |            | 137 | -47 | 007100000 |   |      |     |
| 41135 | 1 29 6   | 15 23.0   | 12 | 2.2 | 1.3(.4) |       | -2.6(.5) |       |            |     |            | 137 | -46 | 001400007 |   |      |     |
| 41145 | 1 29 58  | 58 3.6    | 29 | 2.4 | 1.7(.4) |       |          |       | 20027      | 439 | GC 1870    | 128 | -4  | 071000000 |   |      |     |
| 41155 | 1 30 6   | 77 18.9   | 71 | 2.8 | 1.4(.3) |       |          |       | 60055      |     |            | 125 | 13  | 0-172700  |   |      |     |
| 41165 | 1 30 23  | -0 9.5    | 15 | 2.8 | 1.8(.4) |       |          |       | 20         |     | DO 242     | 145 | -61 | 001700000 |   |      |     |
| 41175 | 1 30 32  | 58 59.5   | 30 | 3.3 | 1.4(.4) |       |          |       | 60057      |     | CHI C45    | 128 | -3  | 077100700 |   |      |     |
| 41185 | 1 31 47  | 37 57.0   | 18 | 1.6 | 2.1(.5) |       |          |       | 40053      |     | DO 8820    | 132 | -24 | 001000000 |   |      |     |
| 2325  | 1 31 48  | 15 6.0    | 16 | 2.5 | 1.6(.3) |       |          |       | -20015     |     | AP C47     | 138 | -46 | 001000000 |   |      |     |
| 41195 | 1 31 54  | -19 16.2  | 14 | 3.8 | 2.0(.4) |       | -3.7(.6) |       |            |     |            | 176 | -77 | 000107200 |   |      |     |
| 41205 | 1 32 15  | 12 20.8   | 11 | 2.7 | 2.1(.4) |       |          |       | SVS 100123 |     |            | 139 | -49 | 007100004 |   |      |     |
| 2335  | 1 32 22  | 23 21.1   | 17 | 2.2 |         |       | -1.2(.4) |       |            |     |            | 136 | -38 | 002000007 |   |      |     |
| 41215 | 1 32 22  | 18 12.2   | 16 | 2.4 | 1.5(.4) |       |          |       | 20028      | 450 | DO 8822.E0 | 137 | -43 | 001000000 |   |      |     |
| 41225 | 1 33 37  | -15 37.7  | 9  | 2.3 | 1.6(.3) |       |          |       | -20015     | 459 | 50 CET     | 167 | -74 | 000107200 |   |      |     |
| 41235 | 1 34 1   | -36 38.8  | 10 | 3.8 | 1.1(.4) |       |          |       | -30013E    |     |            | 260 | -77 | 00030+100 |   |      |     |
| 41245 | 1 35 17  | -3 40.5   | 15 | 3.9 | 2.0(.4) |       |          |       | 21         |     | GC 1975    | 150 | -64 | 007100000 |   |      |     |
| 2395  | 1 35 20  | 8 25.3    | 16 | 2.7 | 1.4(.3) |       |          |       |            |     |            | 142 | -52 | 001700000 |   |      |     |
| 41255 | 1 36 3   | 1 7.9     | 15 | 3.9 | 1.4(.3) |       |          |       | 22         |     | SW CET     | 147 | -59 | 007100000 |   |      |     |
| 41265 | 1 36 30  | -18 13.4  | 13 | 4.0 | 1.2(.3) |       |          |       |            |     | UV CET     | 175 | -76 | 000701700 |   |      |     |
| 41275 | 1 36 53  | 60 37.0   | 31 | 3.5 | 1.4(.4) |       |          |       | 60060      |     | DO 24581   | 129 | -1  | 077100700 |   |      |     |
| 2415  | 1 37 0   | 8 40.7    | 16 | 3.9 | 1.7(.3) |       |          |       |            |     |            | 143 | -52 | 007100000 |   |      |     |
| 2425  | 1 37 28  | 55 47.4   | 23 | 2.4 | 1.4(.3) |       |          |       |            |     |            | 130 | -6  | 0-1000000 |   |      |     |
| 41285 | 1 37 32  | -2 7.1    | 15 | 3.9 | 1.6(.3) |       | -3.9(.4) |       |            |     |            | 150 | -62 | 007107000 |   |      |     |
| 41295 | 1 38 43  | -1 51.2   | 15 | 2.8 |         |       |          |       |            |     |            | 150 | -62 | 004+07000 |   |      |     |
| 41305 | 1 39 10  | -3 19.7   | 15 | 4.0 | 1.6(.4) |       |          |       | DO 275     |     |            | 152 | -63 | 007107000 |   |      |     |
| 41315 | 1 39 56  | 48 15.2   | 23 | 2.1 | 1.7(.4) |       |          |       | DO 24681   |     |            | 132 | -13 | 001000000 |   |      |     |
| 41325 | 1 40 14  | 58 32.8   | 29 | 3.3 | 1.8(.4) |       | -1.2(.4) |       | DO 24682   |     |            | 130 | -3  | 03+000000 |   |      |     |
| 41335 | 1 40 15  | -3 58.2   | 15 | 4.2 | 1.4(.4) |       |          |       | GC 2033    | 800 |            | 152 | -64 | 007201000 |   |      |     |
| 41345 | 1 40 47  | -22 54.3  | 13 | 3.8 |         |       | -1.1(.4) |       |            |     |            | 195 | -77 | 00020+700 |   |      |     |
| 4135  | 1 41 35  | -16 10.2  | 11 | 3.2 | 1.4(.5) |       |          |       | -20018     | 509 | TAU CET    | 173 | -73 | 000+07100 |   |      |     |
| 41365 | 1 42 2   | 60 46.5   | 17 | 2.0 | 1.7(.4) |       | -7(.4)   |       | 60063      |     | DO 24747   | 129 | -1  | 073000700 |   |      |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)      | M(11)     | M(20) | M(27)     | IRC     | DS  | COMMENTS   | L I | B I | OBS.      | LOG |
|-------|----------|-----------|----|-----|-----------|-----------|-------|-----------|---------|-----|------------|-----|-----|-----------|-----|
| 41375 | 1 43 31  | 8 51.1    | 16 | 4.0 | 1.8(-.4)  |           |       |           | 10031   | 510 | OMI PSC EO | 145 | -52 | 007100000 |     |
| 41383 | 1 43 17  | -5 55.6   | 15 | 4.2 | 1.8(-.3)  |           |       |           | -10034  | 513 | GC 2148    | 156 | -65 | 00+01000  |     |
| 41393 | 1 43 44  | 82 21.0   | 31 | 4.0 | 1.5(-.4)  |           |       |           | 60065   |     | BA CAS     | 129 | 0   | 07+01700  |     |
| 2485  | 1 44 14  | 64 17.5   | 26 | 2.9 | 1.0(-.3)  | -7(-.4)   |       |           |         |     | DO 24787   | 129 | 2   | 0+301700  |     |
| 41403 | 1 44 20  | -42 29.5  | 21 | 3.8 |           | -2.3(-.4) |       |           |         |     |            | 270 | -71 | 000000+60 |     |
| 41413 | 1 44 48  | -25 35.9  | 14 | 3.9 |           |           |       |           |         |     |            | 208 | -77 | 000000700 |     |
| 41423 | 1 45 41  | -46 27.1  | 12 | 2.5 | 1.8(-.4)  |           |       | -6.7(-.6) |         |     | GC 2189    | 276 | -68 | 000000110 |     |
| 41433 | 1 45 43  | 33 54.6   | 18 | 1.7 | 1.8(-.3)  |           |       |           | 30030   |     | DO 8929    | 136 | -27 | 001000000 |     |
| 41443 | 1 48 2   | 37 46.1   | 19 | 1.8 | 1.4(-.4)  |           |       |           | 40028   |     | DO 8946    | 136 | -23 | 001000000 |     |
| 41453 | 1 49 44  | -7 16.4   | 16 | 3.0 | 1.7(-.3)  | -1.7(-.3) |       |           |         |     |            | 161 | -65 | 003700000 |     |
| 41463 | 1 50 7   | 68 57.2   | 44 | 4.1 | 1.8(-.4)  |           |       |           | 70031   |     | DO 24930   | 128 | 7   | 07+17700  |     |
| 41473 | 1 50 23  | 60 48.9   | 19 | 3.8 | 1.8(-.4)  | -1.3(-.4) |       |           |         |     | BA CAS     | 130 | -1  | 07+00700  |     |
| 2583  | 1 50 29  | 54 1.2    | 18 | 2.1 | 1.8(-.3)  | -1.1(-.5) |       |           | 50047   |     | DO 24942   | 132 | -8  | 07+00000  |     |
| 2603  | 1 51 25  | 6 46.6    | 16 | 4.0 | 1.2(-.3)  |           |       |           |         |     |            | 149 | -53 | 007100000 |     |
| 41685 | 1 51 56  | 4 28.4    | 11 | 2.5 | 1.5(-.4)  | -1.1(-.4) |       |           | 28      |     | DO 327     | 151 | -55 | 001270007 |     |
| 2635  | 1 52 10  | -31 52.4  | 9  | 3.7 | 1.4(-.4)  |           |       |           |         |     |            | 235 | -76 | 000072000 |     |
| 2645  | 1 52 17  | 6 58.6    | 16 | 4.0 | 1.3(-.3)  | -3.4(-.4) |       |           |         |     |            | 149 | -52 | 00-5 0007 |     |
| 2655  | 1 52 22  | 24 50.9   | 17 | 2.1 | 1.5(-.3)  | -2.8(-.4) |       |           |         |     |            | 141 | -36 | 001000000 |     |
| 2675  | 1 52 28  | 7 42.6    | 16 | 4.0 | 1.5(-.3)  |           |       |           |         |     |            | 149 | -52 | 00+10000  |     |
| 2695  | 1 52 59  | 43 32.4   | 21 | 2.1 | 1.2(-.3)  |           |       |           |         |     |            | 135 | -18 | 001000000 |     |
| 2705  | 1 53 3   | 59 2.2    | 21 | 2.2 | 1.7(-.4)  |           |       |           | 60069   |     | BA CAS     | 131 | -3  | 011000000 |     |
| 41495 | 1 53 20  | 37 4.4    | 18 | 1.8 | 1.6(-.4)  |           |       |           | 40033   | 586 | GC 2322    | 137 | -24 | 001000000 |     |
| 2755  | 1 55 13  | 5 47.1    | 11 | 2.6 |           | -1.2(-.4) |       |           |         |     |            | 151 | -53 | 007070007 |     |
| 41503 | 1 55 14  | -70 23.0  | 47 | 3.4 |           | -1.5(-.4) |       |           |         |     |            | 295 | -46 | 003000000 |     |
| 41515 | 1 55 22  | 59 1.2    | 31 | 2.7 | 1.3(-.4)  |           |       |           | 60070   |     | DO 25084   | 131 | -2  | 071000000 |     |
| 41525 | 1 56 8   | 2 42.6    | 16 | 4.1 |           |           |       | -3.8(-.4) |         |     |            | 154 | -56 | 007000007 |     |
| 2825  | 1 56 29  | 75 41.8   | 34 | 2.2 | 1.7(-.4)  |           |       |           | 80004   |     | SVS 100153 | 127 | 14  | 071171000 |     |
| 2885  | 1 58 19  | 71 1.2    | 26 | 2.8 | 1.9(-.4)  |           |       |           | 70033   |     | V393 CAS   | 129 | 9   | 071771000 |     |
| 41535 | 1 59 19  | 55 1.4    | 27 | 2.6 | 1.2(-.3)  |           |       |           | 50052   |     | XX PER EO  | 133 | -6  | 071000000 |     |
| 41545 | 1 59 26  | -6 12.6   | 14 | 4.0 |           | -1.8(-.3) |       |           |         |     |            | 164 | -63 | 007007000 |     |
| 41555 | 1 59 34  | -7 33.8   | 14 | 4.0 | 1.8(-.3)  |           |       |           |         |     |            | 166 | -64 | 007107000 |     |
| 41565 | 1 59 45  | 16 1.8    | 16 | 2.5 | 1.3(-.3)  |           |       |           | 20036   |     | BY AB1     | 147 | -43 | 001000000 |     |
| 2935  | 2 0 20   | -48 36.2  | 8  | 3.6 |           | -2.1(-.4) |       |           |         |     |            | 270 | -67 | 000000000 |     |
| 41575 | 2 1 40   | -12 7.4   | 13 | 3.9 | 1.8(-.3)  |           |       |           | -10031  |     | GC 2488    | 175 | -67 | 007107000 |     |
| 41585 | 2 1 40   | -10 40.6  | 13 | 3.9 | 1.3(-.3)  |           |       |           |         |     |            | 172 | -66 | 00+107000 |     |
| 41595 | 2 2 16   | -3 4.4    | 14 | 4.0 | 1.8(-.3)  |           |       |           |         |     |            | 182 | -60 | 007107000 |     |
| 41605 | 2 2 28   | -17 30.2  | 13 | 3.9 | 1.8(-.4)  |           |       |           | -20026  |     |            | 187 | -70 | 007107000 |     |
| 41615 | 2 4 2    | -39 47.3  | 9  | 2.7 | 1.8(-.5)  |           |       | -3.8(-.8) | -30015E |     | GC 2537    | 258 | -70 | 000000400 |     |
| 41625 | 2 4 54   | -0 28.6   | 16 | 3.0 | 1.3(-.3)  |           |       |           |         |     |            | 160 | -57 | 001707000 |     |
| 2985  | 2 4 56   | 59 1.0    | 21 | 2.3 | 1.8(-.3)  | -1.1(-.5) |       |           | 60073   |     | 1.135      | 133 | -2  | 031007000 |     |
| 41635 | 2 8 8    | -11 57.7  | 16 | 3.2 | 1.5(-.3)  |           |       |           |         |     |            | 176 | -66 | 001707000 |     |
| 41645 | 2 8 21   | -4 53.4   | 16 | 4.0 | 1.2(-.3)  |           |       |           |         |     |            | 168 | -61 | 007107000 |     |
| 3025  | 2 8 46   | 16 32.7   | 16 | 2.6 |           |           |       | -3.4(-.4) |         |     |            | 149 | -42 | 001000000 |     |
| 41655 | 2 7 18   | -13 58.2  | 13 | 3.9 | 1.5(-.3)  |           |       |           |         |     |            | 181 | -67 | 007107000 |     |
| 3045  | 2 8 11   | 22 14.7   | 17 | 2.4 | 1.3(-.3)  |           |       |           |         |     |            | 146 | -37 | 001000000 |     |
| 41665 | 2 8 28   | 4 28.8    | 16 | 4.0 |           |           |       |           |         |     |            | 157 | -53 | 007000000 |     |
| 41675 | 2 8 14   | -27 6.9   | 9  | 2.1 | -1.0(-.4) |           |       | -3.7(-.4) |         |     |            | 216 | -72 | 000407000 |     |
| 41685 | 2 8 22   | -23 52.0  | 9  | 2.7 | 1.2(-.4)  |           |       |           | -20029  |     |            | 206 | -72 | 000201700 |     |
| 41695 | 2 8 50   | 44 9      | 22 | 2.5 | 1.5(-.4)  | -5(-.4)   |       |           | 40036   | 843 | 60 AND EO  | 138 | -16 | 001000000 |     |
| 41705 | 2 10 16  | 18 2.2    | 16 | 2.2 | 1.5(-.4)  |           |       |           | 20043   | 648 | 19 AB1     | 150 | -43 | 001000000 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)    | M(11) | M(20) | M(27) | IRC | BS | COMMENTS | L   | I   | B | J | OBS.       | LOG |
|-------|----------|-----------|----|-----|---------|-------|-------|-------|-----|----|----------|-----|-----|---|---|------------|-----|
| 41715 | 2 11 23  | -5 47 2   | 16 | 3.2 | 1.6(3)  |       |       |       |     |    |          | 189 | -61 |   |   | 001707000  |     |
| 41725 | 2 11 43  | -19 47 9  | 16 | 3.3 | 1.3(3)  |       |       |       |     |    |          | 196 | -70 |   |   | 005407700  |     |
| 41735 | 2 12 51  | 67 2 6    | 21 | 3.7 | 1.6(4)  |       |       |       |     |    |          | 131 | 8   |   |   | 077207100  |     |
| 41745 | 2 13 14  | 75 6 9    | 32 | 3.9 |         |       |       |       |     |    |          | 128 | 13  |   |   | 077227700  |     |
| 41755 | 2 13 20  | -23 32 4  | 9  | 3.7 | 1.5(4)  |       |       |       |     |    |          | 206 | -71 |   |   | 000707100  |     |
| 41765 | 2 13 28  | -20 47 2  | 10 | 2.6 | 1.8(4)  |       |       |       |     |    |          | 199 | -70 |   |   | 004107700  |     |
| 41775 | 2 13 35  | -25 48 8  | 14 | 3.8 | 1.4(3)  |       |       |       |     |    |          | 213 | -71 |   |   | 000403700  |     |
| 41785 | 2 13 52  | 72 29 2   | 32 | 3.9 |         |       |       |       |     |    |          | 129 | 11  |   |   | 077677700  |     |
| 3125  | 2 14 36  | -14 54 6  | 10 | 2.8 | -1.8(4) |       |       |       |     |    |          | 185 | -67 |   |   | 002202700  |     |
| 41795 | 2 15 37  | 31 53.1   | 17 | 1.9 | 1.8(4)  |       |       |       |     |    |          | 144 | -27 |   |   | 001000000  |     |
| 41805 | 2 15 42  | -1 33 6   | 15 | 4.1 | 1.3(3)  |       |       |       |     |    |          | 165 | -57 |   |   | 007107000  |     |
| 41815 | 2 15 59  | -5 36 4   | 16 | 3.2 |         |       |       |       |     |    |          | 170 | -60 |   |   | 004707000  |     |
| 3153  | 2 16 17  | 63 55 8   | 26 | 2.5 | 1.4(3)  |       |       |       |     |    |          | 132 | 3   |   |   | 071001700  |     |
| 41825 | 2 16 28  | 33 36 9   | 8  | 1.9 |         |       |       |       |     |    |          | 143 | -26 |   |   | 006300000  |     |
| 41835 | 2 16 55  | 56 46.1   | 17 | 2.3 | 1.9(5)  |       |       |       |     |    |          | 135 | -4  |   |   | 03+0000000 |     |
| 41845 | 2 17 2   | -19 2 3   | 13 | 3.9 | 1.7(3)  |       |       |       |     |    |          | 195 | -68 |   |   | 007107700  |     |
| 41855 | 2 17 36  | -12 29 5  | 16 | 3.2 | 1.4(3)  |       |       |       |     |    |          | 132 | -64 |   |   | 007207000  |     |
| 41865 | 2 17 47  | 50 32.1   | 18 | 2.6 | 1.4(4)  |       |       |       |     |    |          | 134 | -0  |   |   | 01+0071000 |     |
| 41875 | 2 17 48  | -22 45 9  | 13 | 3.9 | 1.6(3)  |       |       |       |     |    |          | 205 | -69 |   |   | 007107700  |     |
| 41885 | 2 18 25  | 23 12.7   | 17 | 2.3 | 1.6(4)  |       |       |       |     |    |          | 148 | -35 |   |   | 001000000  |     |
| 41895 | 2 18 36  | 57 36.2   | 29 | 3.0 | 1.7(4)  |       |       |       |     |    |          | 135 | -3  |   |   | 071007000  |     |
| 3245  | 2 19 25  | 70 45.4   | 44 | 4.1 |         |       |       |       |     |    |          | 130 | 9   |   |   | 07+2777000 |     |
| 41905 | 2 19 44  | 56 59.0   | 18 | 2.5 | .6(3)   |       |       |       |     |    |          | 135 | -3  |   |   | 01+0050000 |     |
| 41915 | 2 20 9   | -10 26 5  | 13 | 4.0 | 2.2(4)  |       |       |       |     |    |          | 179 | -63 |   |   | 00+1070000 |     |
| 41925 | 2 20 31  | -9 24.4   | 13 | 4.0 | 1.4(3)  |       |       |       |     |    |          | 178 | -62 |   |   | 00+1070000 |     |
| 41935 | 2 20 35  | -3 3 5    | 16 | 3.2 | 1.3(3)  |       |       |       |     |    |          | 169 | -57 |   |   | 001707000  |     |
| 41945 | 2 22 43  | -13 23.1  | 12 | 4.0 | 1.3(3)  |       |       |       |     |    |          | 185 | -64 |   |   | 007107700  |     |
| 41955 | 2 23 6   | 37 53.6   | 19 | 2.3 | 1.7(4)  |       |       |       |     |    |          | 143 | -21 |   |   | 001000000  |     |
| 41965 | 2 23 29  | -0 22 9   | 15 | 3.5 |         |       |       |       |     |    |          | 167 | -55 |   |   | 007207004  |     |
| 3345  | 2 24 9   | 35 44.8   | 19 | 2.3 | 1.1(4)  |       |       |       |     |    |          | 143 | -22 |   |   | 001000000  |     |
| 3345  | 2 24 33  | 26 43.3   | 17 | 2.0 |         |       |       |       |     |    |          | 148 | -31 |   |   | 004000000  |     |
| 41975 | 2 25 49  | 68 57.6   | 19 | 2.1 | 1.7(4)  |       |       |       |     |    |          | 132 | 8   |   |   | 01+27400   |     |
| 41985 | 2 28 12  | -34 34.1  | 10 | 3.6 |         |       |       |       |     |    |          | 238 | -68 |   |   | 000007200  |     |
| 3385  | 2 28 12  | -21 17 3  | 8  | 2.7 | -1.2(4) |       |       |       |     |    |          | 203 | -67 |   |   | 00+20+200  |     |
| 41995 | 2 28 17  | 49 58.8   | 25 | 3.0 | 1.4(4)  |       |       |       |     |    |          | 139 | -10 |   |   | 001000000  |     |
| 42005 | 2 29 6   | 35 55.8   | 19 | 2.5 | 1.3(4)  |       |       |       |     |    |          | 145 | -22 |   |   | 001000000  |     |
| 3435  | 2 30 1   | -26 50.0  | 9  | 2.7 |         |       |       |       |     |    |          | 217 | -68 |   |   | 000706400  |     |
| 3445  | 2 30 18  | -0 18 6   | 11 | 2.6 |         |       |       |       |     |    |          | 169 | -54 |   |   | 004077007  |     |
| 465   | 2 30 20  | -16 54.9  | 7  | 2.3 | 1.6(4)  |       |       |       |     |    |          | 194 | -64 |   |   | 00+101400  |     |
| 42015 | 2 30 29  | -70 39.9  | 46 | 3.6 |         |       |       |       |     |    |          | 292 | -44 |   |   | 000000020  |     |
| 42025 | 2 30 31  | -5 42.8   | 14 | 4.1 | 1.5(3)  |       |       |       |     |    |          | 176 | -58 |   |   | 007107000  |     |
| 42035 | 2 31 21  | 67 44.7   | 23 | 2.8 | 1.8(4)  |       |       |       |     |    |          | 132 | 7   |   |   | 072117700  |     |
| 42045 | 2 31 49  | -3 49.0   | 14 | 4.1 | 1.5(3)  |       |       |       |     |    |          | 174 | -56 |   |   | 007107000  |     |
| 42055 | 2 31 51  | 22 14.0   | 17 | 2.5 | 1.8(4)  |       |       |       |     |    |          | 152 | -34 |   |   | 001000000  |     |
| 42065 | 2 31 59  | -34 48.8  | 16 | 3.8 |         |       |       |       |     |    |          | 238 | -67 |   |   | 000004700  |     |
| 42075 | 2 32 54  | 37 5 4    | 19 | 2.8 | 1.8(3)  |       |       |       |     |    |          | 145 | -21 |   |   | 001000000  |     |
| 42085 | 2 33 10  | 5 22.6    | 16 | 3.1 | 1.7(4)  |       |       |       |     |    |          | 164 | -49 |   |   | 001007700  |     |
| 42095 | 2 33 27  | 65 30.2   | 37 | 3.4 | 1.5(4)  |       |       |       |     |    |          | 134 | 5   |   |   | 071007700  |     |
| 3565  | 2 34 11  | 27 29.2   | 16 | 2.1 |         |       |       |       |     |    |          | 150 | -30 |   |   | 004000000  |     |
| 42105 | 2 34 31  | 56 48.4   | 30 | 3.6 | .9(4)   |       |       |       |     |    |          | 137 | -3  |   |   | 00+0010000 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | EO  | B(4)    | M(11)    | M(20)    | M(27) | IRC     | BS  | COMMENTS   | L 11 | B 11 | OBS. LOG  |
|-------|----------|-----------|----|-----|---------|----------|----------|-------|---------|-----|------------|------|------|-----------|
|       | H M S    | D M S     |    |     |         |          |          |       |         |     |            |      |      |           |
| 42115 | 2 34 33  | -36 1.7   | 9  | 2.7 | 1.3(.4) |          | -3.6(.4) |       | -30019E |     |            | 241  | -65  | CO 004100 |
| 42125 | 2 35 3   | -3 0.0    | 14 | 4.1 | 1.3(.3) |          |          |       |         |     |            | 174  | -55  | 007107000 |
| 42135 | 2 35 4   | 64 47.8   | 21 | 2.7 |         | -1.5(.5) | -3.4(.5) |       |         |     |            | 134  | 4    | 02+007600 |
| 42145 | 2 35 32  | 27 16.3   | 16 | 2.1 | 1.7(.4) |          |          |       | 30045   |     | DO 9441    | 150  | -30  | 001000000 |
| 3505  | 2 35 43  | -9 47.8   | 10 | 2.8 |         | -1.2(.4) |          |       |         |     | MGC 1018   | 183  | -59  | 007027007 |
| 42155 | 2 35 45  | -14 37.2  | 9  | 2.2 |         | -1.0(.4) |          |       |         |     |            | 191  | -62  | 007027000 |
| 3625  | 2 36 30  | 55 45.3   | 30 | 3.6 | 1.4(.3) |          |          |       |         |     |            | 138  | -4   | 007001000 |
| 3635  | 2 36 16  | 62 3.3    | 17 | 3.1 | 1.6(.4) |          | -9(.4)   |       |         |     |            | 135  | 2    | 021007300 |
| 42165 | 2 36 36  | -40 3.9   | 10 | 3.8 | 1.2(.4) |          |          |       | -40017E | 794 | 107 ERI    | 249  | -64  | 000070100 |
| 42175 | 2 36 49  | 34 17.8   | 19 | 2.5 | 1.3(.3) |          |          |       | 30047   |     | W TRI      | 147  | -33  | 001000000 |
| 42185 | 2 39 34  | -26 15.3  | 7  | 2.7 | 1.8(.4) |          |          |       |         |     |            | 217  | -65  | 007107100 |
| 42195 | 2 39 45  | -22 50.3  | 11 | 3.9 | 1.5(.4) |          |          |       | -20036  |     | AT CET     | 209  | -65  | 007107200 |
| 3705  | 2 40 1   | -23 50.7  | 9  | 2.7 | 1.5(.3) |          |          |       |         |     |            | 211  | -65  | 007107100 |
| 42205 | 2 40 18  | -0 12.4   | 16 | 3.4 |         |          | -2.7(.4) |       |         |     | MGC 1058   | 172  | -52  | 004707007 |
| 42215 | 2 41 0   | 17 19.8   | 17 | 3.4 | 1.3(.3) |          |          |       | 20048   |     | DO 9486    | 157  | -38  | 007010000 |
| 42225 | 2 43 0   | -1 25.7   | 8  | 2.0 | 1.3(.3) |          | -2.4(.5) |       |         |     | DO 26139   | 174  | -52  | 007010000 |
| 42235 | 2 43 8   | 71 41.9   | 42 | 4.1 | 1.8(.5) |          |          |       | 70038   |     |            | 137  | 11   | 071777000 |
| 42245 | 2 43 11  | -11 15.7  | 12 | 4.0 | 1.5(.5) |          |          |       | -10038  |     |            | 193  | -60  | 007027100 |
| 3745  | 2 43 50  | -20 16.2  | 9  | 2.7 |         | -1.0(.4) | -3.2(.5) |       |         |     |            | 222  | -65  | 007026700 |
| 42255 | 2 44 23  | -17 10.1  | 16 | 2.6 | 1.5(.3) |          |          |       |         |     |            | 198  | -62  | 007077000 |
| 42265 | 2 45 18  | -19 17.3  | 16 | 3.6 | 1.4(.3) |          |          |       |         |     |            | 203  | -62  | 007077000 |
| 42275 | 2 46 22  | -4 29.0   | 13 | 4.1 | 1.6(.4) |          |          |       |         |     | DO 480     | 179  | -54  | 007107000 |
| 42285 | 2 46 50  | 51 51.3   | 27 | 3.9 | 1.4(.4) |          |          |       | 34      |     | DO 26264   | 141  | -7   | 007001000 |
| 42295 | 2 47 29  | -15 52.0  | 11 | 3.9 | 1.6(.3) |          |          |       | 50075   |     | EO         | 196  | -60  | 007107200 |
| 3585  | 2 49 4   | 47 16.8   | 24 | 3.3 | 1.4(.3) |          |          |       |         |     |            | 143  | -11  | 071007000 |
| 42305 | 2 49 12  | -41 9.5   | 11 | 3.8 | 1.7(.5) |          | -3.6(.5) |       | -40019E |     | GC 3436    | 250  | -62  | 007005000 |
| 3915  | 2 49 48  | 27 43.2   | 16 | 2.1 | 1.4(.3) |          |          |       |         |     |            | 153  | -28  | 001000000 |
| 42315 | 2 51 5   | 52 31.7   | 27 | 3.4 | 1.6(.4) |          |          |       | 50077   | 854 | TAU PER    | 141  | -6   | 001007000 |
| 42325 | 2 52 55  | 57 22.3   | 30 | 3.5 | 1.4(.3) |          |          |       | 50106   |     | DO 26429   | 139  | -1   | 001007000 |
| 42335 | 2 53 0   | 51 5.7    | 28 | 3.3 | 1.7(.4) |          |          |       | 50079   | 864 | DO 26438   | 142  | -7   | 001007000 |
| 4025  | 2 53 32  | 55 44.7   | 29 | 3.5 |         |          |          |       |         |     |            | 140  | -3   | 004007000 |
| 42345 | 2 53 47  | -16 17.0  | 8  | 2.2 | 1.8(.4) |          | -2.9(.4) |       | -10042  |     |            | 183  | -54  | 003102007 |
| 42355 | 2 55 16  | -12 13.8  | 10 | 2.6 |         | -1.3(.5) | -3.7(.5) |       |         |     |            | 192  | -57  | 007074004 |
| 42365 | 2 55 51  | -23 51.5  | 12 | 4.0 | 1.6(.5) |          |          |       | -20038  | 889 | 6 ERI      | 213  | -61  | 007071000 |
| 42375 | 2 56 1   | 35 1.1    | 19 | 2.7 | 1.1(.4) |          |          |       | 30054   | 882 | 24 PER     | 150  | -21  | 001007000 |
| 42385 | 2 56 45  | 29 36.3   | 17 | 1.7 | 1.2(.3) |          |          |       | 30055   |     |            | 154  | -25  | 001007000 |
| 42395 | 2 57 54  | 10 38.8   | 17 | 3.3 | 1.9(.4) |          |          |       | 10031   | 908 | DO 486     | 167  | -41  | 001007000 |
| 42405 | 2 58 6   | -13 8.6   | 11 | 4.0 | 1.8(.3) |          |          |       |         |     |            | 194  | -57  | 007107000 |
| 4175  | 2 59 19  | -16 33.0  | 8  | 2.8 | 1.8(.4) |          | -5(.4)   |       |         |     |            | 200  | -58  | 007207107 |
| 4175  | 2 59 33  | 10 25.2   | 17 | 2.8 |         |          | -3.2(.4) |       |         |     |            | 163  | -36  | 004007000 |
| 42415 | 2 59 45  | -5 8.3    | 12 | 4.1 | 1.6(.3) |          |          |       |         |     |            | 183  | -52  | 007107000 |
| 4215  | 3 0 6    | -22 58.4  | 9  | 2.7 |         |          | -3.1(.5) |       |         |     | PGC 1187   | 212  | -60  | 004077000 |
| 4225  | 3 0 9    | 43 41.4   | 21 | 2.6 | 1.7(.4) |          | -3.3(.4) |       |         |     |            | 147  | -13  | 007005000 |
| 4235  | 3 0 12   | -9 16.5   | 9  | 2.7 | 1.0(.3) |          |          |       |         |     | MGC 1185   | 189  | -54  | 007021007 |
| 4245  | 3 0 13   | -7 54.2   | 16 | 3.7 | 1.6(.3) |          |          |       |         |     | SVS 102400 | 187  | -53  | 001767000 |
| 4245  | 3 0 34   | 38 44.5   | 20 | 2.5 | 1.8(.3) |          |          |       |         |     | DO 8596    | 149  | -17  | 001007000 |
| 4245  | 3 1 23   | 35 40.7   | 13 | 1.8 | 1.6(.4) |          |          |       | 40053   |     | DO 9769    | 151  | -20  | 001001000 |
| 4265  | 3 1 33   | 31 18.3   | 9  | 2.3 | 1.7(.4) |          | -3.8(.4) |       |         |     |            | 154  | -23  | 000005000 |
| 4245  | 3 1 38   | -15 24.0  | 11 | 3.9 |         | -2.9(.5) |          |       |         |     |            | 199  | -37  | 00737707  |
| 4245  | 3 1 51   | -12 59.4  | 15 | 3.6 | 1.7(.4) |          | -1.3(.4) |       |         |     |            | 195  | -56  | 00702707  |



TABLE OF OBSERVATIONS

| GL   | RA(1950) | DEC(1950) | FA     | ED  | M(4) | M(1) | M(2) | M(27) | IRC | BS | COMMENTS | L II | B II | CBS       | LOG |
|------|----------|-----------|--------|-----|------|------|------|-------|-----|----|----------|------|------|-----------|-----|
| 4265 | 3 2 22   | 26 0 15   | 3 7    | 1 3 | 3    |      |      |       |     |    |          | 218  | -60  | 00:07200  |     |
| 4265 | 3 3 16   | 74 31 8   | 54 3 7 | 1 1 | 4    |      |      |       |     |    |          | 132  | 14   | 04:57200  |     |
| 4265 | 3 3 44   | 11 29 1   | 16 2 4 | 1 1 | 4    |      |      |       |     |    |          | 168  | -39  | 00:00200  |     |
| 4265 | 3 3 45   | 60 19 1   | 26 4 1 | 1 3 | 4    |      |      |       |     |    |          | 139  | 2    | 00:00200  |     |
| 4265 | 3 3 56   | 31 12 8   | 18 2 6 | 1 3 | 3    |      |      |       |     |    |          | 154  | -23  | 00:00400  |     |
| 4265 | 3 3 59   | 38 45 6   | 19 2 2 | 1 3 | 3    |      |      |       |     |    |          | 150  | -17  | 00:00300  |     |
| 4265 | 3 4 8    | 66 11 6   | 28 3 6 | 1 4 | 3    |      |      |       |     |    |          | 136  | 7    | 01:01200  |     |
| 4265 | 3 5 5    | 11 10 2   | 16 3 7 | 1 4 | 3    |      |      |       |     |    |          | 133  | -54  | 00:00200  |     |
| 4265 | 3 5 34   | 24 13 5   | 8 2 8  | 1 5 | 3    |      |      |       |     |    |          | 215  | -53  | 00:00200  |     |
| 4265 | 3 6 24   | 26 36 1   | 16 3 7 | 1 6 | 4    |      |      |       |     |    |          | 220  | -59  | 00:00200  |     |
| 4265 | 3 8 6    | 39 25 1   | 19 2 2 | 1 8 | 4    |      |      |       |     |    |          | 150  | -16  | 00:00100  |     |
| 4265 | 3 8 11   | 37 52 8   | 18 2 1 | 1 7 | 5    |      |      |       |     |    |          | 151  | -17  | 00:00100  |     |
| 4265 | 3 8 19   | 21 53 3   | 10 3 8 | 1 5 | 3    |      |      |       |     |    |          | 211  | -58  | 00:00200  |     |
| 4265 | 3 8 37   | 43 51 7   | 13 3 9 | 1 0 | 4    |      |      |       |     |    |          | 253  | -58  | 00:00100  |     |
| 4265 | 3 8 44   | 4 1 0     | 10 2 7 | 1 0 | 3    |      |      |       |     |    |          | 184  | -49  | 00:00200  |     |
| 4265 | 3 9 3    | 23 56 0   | 12 3 9 | 1 5 | 4    |      |      |       |     |    |          | 215  | -58  | 00:00200  |     |
| 4265 | 3 9 12   | 23 31 9   | 18 3 1 | 1 3 | 3    |      |      |       |     |    |          | 160  | -58  | 00:00100  |     |
| 4265 | 3 9 33   | 55 31 2   | 20 2 4 | 1 5 | 4    |      |      |       |     |    |          | 142  | -4   | 00:00100  |     |
| 4265 | 3 9 44   | 65 23 8   | 23 2 7 | 1 5 | 4    |      |      |       |     |    |          | 137  | 7    | 01:01200  |     |
| 4265 | 3 10 1   | 29 51 3   | 9 3 8  | 1 6 | 4    |      |      |       |     |    |          | 226  | -59  | 00:00200  |     |
| 4265 | 3 10 35  | 47 6 6    | 23 2 7 | 1 6 | 3    |      |      |       |     |    |          | 147  | -9   | 00:00100  |     |
| 4265 | 3 11 29  | 54 42 0   | 28 3 1 | 1 3 | 4    |      |      |       |     |    |          | 143  | -2   | 00:00100  |     |
| 4265 | 3 12 26  | 1 25 6    | 17 3 7 | 1 3 | 4    |      |      |       |     |    |          | 179  | -45  | 00:00100  |     |
| 4265 | 3 12 41  | 1 31 6    | 16 3 5 | 1 3 | 4    |      |      |       |     |    |          | 179  | -45  | 00:00100  |     |
| 4265 | 3 12 50  | 23 44 3   | 11 2 6 | 1 7 | 4    |      |      |       |     |    |          | 218  | -58  | 00:00400  |     |
| 4265 | 3 12 58  | 33 43 3   | 9 3 8  | 1 7 | 4    |      |      |       |     |    |          | 228  | -59  | 00:00200  |     |
| 4265 | 3 13 5   | 23 47 4   | 11 2 6 | 1 4 | 3    |      |      |       |     |    |          | 215  | -57  | 00:00200  |     |
| 4265 | 3 13 18  | 24 34 6   | 10 3 8 | 1 6 | 3    |      |      |       |     |    |          | 216  | -58  | 00:00200  |     |
| 4265 | 3 13 49  | 5 54 6    | 16 3 7 | 1 4 | 4    |      |      |       |     |    |          | 188  | -49  | 00:00200  |     |
| 4265 | 3 13 54  | 8 45 0    | 10 2 8 | 1 5 | 4    |      |      |       |     |    |          | 191  | -51  | 00:00150+ |     |
| 4265 | 3 14 12  | 76 50 8   | 64 3 8 | 1 0 | 3    |      |      |       |     |    |          | 293  | -38  | 00:00020  |     |
| 4265 | 3 15 32  | 34 3 7    | 18 2 5 | 1 0 | 3    |      |      |       |     |    |          | 155  | -19  | 00:00100  |     |
| 4265 | 3 16 35  | 32 57 2   | 18 2 5 | 1 0 | 4    |      |      |       |     |    |          | 155  | -20  | 00:00100  |     |
| 4265 | 3 17 1   | 70 32 7   | 24 2 2 | 1 8 | 5    |      |      |       |     |    |          | 135  | 11   | 04:57200  |     |
| 4265 | 3 17 21  | 17 21 4   | 11 2 5 | 1 6 | 3    |      |      |       |     |    |          | 205  | -54  | 00:00200  |     |
| 4265 | 3 17 54  | 31 46 1   | 18 2 6 | 1 4 | 3    |      |      |       |     |    |          | 156  | -21  | 00:00100  |     |
| 4265 | 3 18 17  | 7 38 9    | 9 2 7  | 1 9 | 4    |      |      |       |     |    |          | 191  | -50  | 00:00400+ |     |
| 4265 | 3 18 26  | 15 29 8   | 15 3 6 | 1 5 | 3    |      |      |       |     |    |          | 202  | -53  | 00:00200  |     |
| 4265 | 3 19 2   | 74 51 9   | 37 3 9 | 1 6 | 4    |      |      |       |     |    |          | 132  | 15   | 07:01200  |     |
| 4265 | 3 19 24  | 27 45 1   | 7 2 2  | 1 6 | 4    |      |      |       |     |    |          | 223  | -57  | 00:00400  |     |
| 4265 | 3 19 50  | 29 20 0   | 18 2 8 | 1 2 | 3    |      |      |       |     |    |          | 158  | -23  | 00:00100  |     |
| 4265 | 3 21 12  | 3 44 0    | 15 2 8 | 1 8 | 4    |      |      |       |     |    |          | 179  | -42  | 00:00200  |     |
| 4265 | 3 21 15  | 11 42 1   | 17 3 4 | 1 5 | 3    |      |      |       |     |    |          | 171  | -36  | 00:00100  |     |
| 4265 | 3 22 51  | -0 52 4   | 16 3 9 | 1 8 | 3    |      |      |       |     |    |          | 184  | -45  | 00:00200  |     |
| 4265 | 3 24 45  | 74 16 9   | 51 3 8 | 1 6 | 3    |      |      |       |     |    |          | 133  | 15   | 07:01200  |     |
| 4265 | 3 24 13  | 60 32 1   | 31 3 8 | 1 6 | 3    |      |      |       |     |    |          | 141  | 3    | 02:00200  |     |
| 4265 | 3 25 12  | -10 1 9   | 10 3 9 | 1 5 | 3    |      |      |       |     |    |          | 195  | -49  | 00:00200  |     |
| 4265 | 3 25 32  | 48 34 5   | 25 3 8 | 1 4 | 4    |      |      |       |     |    |          | 148  | 6    | 00:00200  |     |
| 4265 | 3 25 55  | 58 44 5   | 28 4 1 | 1 7 | 5    |      |      |       |     |    |          | 142  | 2    | 00:00200  |     |
| 4265 | 3 28 24  | -14 25 9  | 9 3 8  | 1 7 | 3    |      |      |       |     |    |          | 202  | -51  | 00:00200  |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA  | ED  | M(4)     | M(11) | M(20) | M(27) | IRC | BS | COMMENT    | L 11 | B 11 | ONS      | LOG |
|-------|----------|-----------|-----|-----|----------|-------|-------|-------|-----|----|------------|------|------|----------|-----|
|       | H M S    | D M S     |     |     |          |       |       |       |     |    |            |      |      |          |     |
| 42825 | 3 29 5   | 60 40.5   | 31  | 3.9 |          |       |       |       |     |    |            | 141  | 4    | 00200700 |     |
| 42835 | 3 30 21  | -25 49.0  | 9   | 3.7 | 1.8(1.4) |       |       |       |     |    | RZ FOR     | 220  | -54  | 00110700 |     |
| 42845 | 3 31 12  | -15 28.5  | 9   | 3.8 | 1.7(1.3) |       |       |       |     |    |            | 204  | -51  | 00110700 |     |
| 42855 | 3 31 56  | 63 1 7    | 32  | 4.1 | 1.3(1.4) |       |       |       |     |    |            | 140  | 6    | 00100700 |     |
| 42865 | 3 34 30  | -19 11.5  | 8   | 3.7 | 1.8(1.3) |       |       |       |     |    |            | 210  | -51  | 00110700 |     |
| 5025  | 3 34 37  | -6 51.2   | 11  | 2.7 |          |       |       |       |     |    | IC 0337    | 193  | -46  | 00104300 |     |
| 42875 | 3 35 36  | -16 39.7  | 15  | 4.0 | 1.4(1.3) |       |       |       |     |    |            | 226  | -50  | 00110700 |     |
| 42885 | 3 36 26  | 24 49.6   | 18  | 2.9 | 1.4(1.4) |       |       |       |     |    | AP TAU     | 165  | -24  | 00100700 |     |
| 5045  | 3 37 11  | 61 35.4   | 22  | 2.9 | 1.5(1.4) |       |       |       |     |    | DO 27390   | 142  | 5    | 00100700 |     |
| 2895  | 3 38 0   | 69 29.9   | 829 | 3.7 | 1.7(1.3) |       |       |       |     |    |            | 123  | 27   | 00110700 |     |
| 42905 | 3 38 15  | 59 49.7   | 30  | 3.9 | 1.3(1.4) |       |       |       |     |    |            | 143  | 4    | 00100700 |     |
| 42915 | 3 39 10  | 36 20.6   | 19  | 2.3 | 1.9(1.4) |       |       |       |     |    | GC 4408    | 157  | -15  | 00100700 |     |
| 42925 | 3 41 14  | -32 54.7  | 12  | 2.5 |          |       |       |       |     |    | AF PER     | 232  | -53  | 00100700 |     |
| 42935 | 3 43 11  | -16 21.2  | 16  | 3.5 |          |       |       |       |     |    |            | 207  | -48  | 00100700 |     |
| 42945 | 3 44 34  | 59 26.2   | 31  | 2.8 | 1.7(1.4) |       |       |       |     |    |            | 144  | 4    | 00100700 |     |
| 42955 | 3 45 11  | 24 50.4   | 18  | 2.9 | 1.9(1.4) |       |       |       |     |    | SVS 100325 | 166  | -23  | 00100700 |     |
| 42965 | 3 46 33  | 65 7.8    | 34  | 4.0 | 1.2(1.3) |       |       |       |     |    |            | 140  | 9    | 00100700 |     |
| 42975 | 3 47 9   | 42 26.2   | 20  | 2.0 | 1.8(1.4) |       |       |       |     |    | DO 27623   | 155  | -9   | 00100700 |     |
| 42985 | 3 48 23  | 63 52.5   | 33  | 4.0 | 1.8(1.5) |       |       |       |     |    | SVS 350    | 141  | 8    | 00100700 |     |
| 42995 | 3 48 56  | -1 31.5   | 15  | 3.3 |          |       |       |       |     |    | SU ERI. EO | 190  | -40  | 00100700 |     |
| 43005 | 3 49 56  | -40 17.1  | 11  | 2.2 | 1.3(1.4) |       |       |       |     |    |            | 244  | -51  | 00100700 |     |
| 43015 | 3 50 12  | 60 47.2   | 22  | 2.6 | 1.3(1.4) |       |       |       |     |    |            | 143  | 6    | 00100700 |     |
| 43025 | 3 51 28  | 24 33.2   | 17  | 2.7 | 1.7(1.4) |       |       |       |     |    | V401 TAU   | 167  | -22  | 00100700 |     |
| 5115  | 3 51 43  | -17 29.5  | 6   | 2.7 | 1.7(1.3) |       |       |       |     |    |            | 210  | -47  | 00100700 |     |
| 43035 | 3 52 39  | 53 7.5    | 26  | 3.9 | 1.7(1.4) |       |       |       |     |    | SHARP 205  | 149  | -0   | 00100700 |     |
| 43045 | 3 52 43  | -15 2.4   | 8   | 3.6 | 1.5(1.3) |       |       |       |     |    | RJ ERI     | 207  | -49  | 00100700 |     |
| 43055 | 3 53 10  | -24 9.8   | 7   | 3.6 | 1.5(1.4) |       |       |       |     |    | T ERI      | 219  | -49  | 00100700 |     |
| 5335  | 3 53 56  | -34 24.9  | 8   | 2.6 | 1.2(1.3) |       |       |       |     |    |            | 235  | -50  | 00100700 |     |
| 5355  | 3 54 27  | 12 56.2   | 16  | 3.1 | 1.2(1.3) |       |       |       |     |    |            | 177  | -30  | 00100700 |     |
| 43065 | 3 56 0   | 1 52.6    | 16  | 3.2 | 1.6(1.4) |       |       |       |     |    | DO 670     | 179  | -31  | 00100700 |     |
| 43075 | 3 57 12  | 95 8.2    | 29  | 4.0 | 1.1(1.4) |       |       |       |     |    | AG CAM. EO | 148  | 2    | 00100700 |     |
| 43085 | 3 57 36  | -16 28.4  | 15  | 3.3 | 1.3(1.4) |       |       |       |     |    |            | 197  | -41  | 00100700 |     |
| 43095 | 3 58 13  | 16 7.3    | 8   | 3.7 | 1.4(1.3) |       |       |       |     |    |            | 209  | -45  | 00100700 |     |
| 43105 | 3 59 50  | -6 3.5    | 9   | 3.7 | 1.9(1.3) |       |       |       |     |    |            | 197  | -40  | 00100700 |     |
| 43115 | 3 59 51  | -13 53.1  | 9   | 2.8 | 1.9(1.3) |       |       |       |     |    | W2 ERI     | 206  | -44  | 00100700 |     |
| 43125 | 4 0 18   | -10 54.6  | 15  | 3.4 |          |       |       |       |     |    |            | 202  | -42  | 00100700 |     |
| 43135 | 4 0 39   | -10 47.5  | 15  | 3.4 |          |       |       |       |     |    |            | 202  | -42  | 00100700 |     |
| 43145 | 4 1 8    | -20 48.2  | 14  | 4.0 | 1.5(1.3) |       |       |       |     |    |            | 215  | -46  | 00100700 |     |
| 43155 | 4 1 8    | -7 7.1    | 15  | 3.3 | 1.9(1.4) |       |       |       |     |    |            | 158  | -40  | 00100700 |     |
| 43165 | 4 1 10   | 61 38.7   | 27  | 3.7 | 1.2(1.4) |       |       |       |     |    | UV CAM     | 144  | 7    | 00100700 |     |
| 5345  | 4 1 15   | -33 52.0  | 7   | 2.2 |          |       |       |       |     |    |            | 234  | -49  | 00100700 |     |
| 43175 | 4 1 33   | -25 58.2  | 8   | 3.7 | 2.2(1.5) |       |       |       |     |    | CC 4889    | 223  | -47  | 00100700 |     |
| 43185 | 4 1 47   | 12 21.7   | 15  | 3.1 | 1.3(1.2) |       |       |       |     |    | DO 690     | 179  | -29  | 00100700 |     |
| 43195 | 4 1 47   | 26 4.4    | 18  | 2.7 | 1.6(1.4) |       |       |       |     |    | DO 10256   | 168  | -19  | 00100700 |     |
| 5435  | 4 4 0    | 23 39.7   | 17  | 2.8 |          |       |       |       |     |    |            | 170  | -21  | 00100700 |     |
| 43205 | 4 4 38   | -7 51.1   | 15  | 3.9 | 2.1(1.5) |       |       |       |     |    | RV ERI     | 200  | -40  | 00100700 |     |
| 43215 | 4 4 46   | 55 5.0    | 26  | 4.1 | 1.3(1.2) |       |       |       |     |    | DC 27974   | 149  | -2   | 00100700 |     |
| 43225 | 4 5 47   | 10 2      | 16  | 3.2 | 1.5(1.4) |       |       |       |     |    | DO 704     | 182  | -29  | 00100700 |     |
| 5475  | 4 6 19   | -38 7.5   | 16  | 3.8 |          |       |       |       |     |    |            | 241  | -48  | 00100700 |     |
| 43235 | 4 8 2    | -34 42.0  | 14  | 3.9 | 1.8(1.4) |       |       |       |     |    | CC 5030    | 236  | -47  | 00100700 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)   | M(11) | M(20) | M(27) | IRC     | RS   | COMMENTS   | L 11 | B 11 | OBS.     | LOG |
|-------|----------|-----------|----|-----|--------|-------|-------|-------|---------|------|------------|------|------|----------|-----|
| 4324S | 4 9 52   | 9 56 8    | 10 | 3.8 | 1.8(3) |       |       |       | 54      |      | DO 724     | 203  | -40  | 00710700 |     |
| 4325S | 4 9 57   | -4 34 0   | 16 | 4.0 | 2.0(4) |       |       |       | -20050  |      | GC 5082    | 197  | -37  | 00710700 |     |
| 4326S | 4 10 26  | -23 58 3  | 18 | 3.7 | 1.7(4) |       |       |       | 56      |      | DO 727     | 220  | -45  | 00710700 |     |
| 4327S | 4 10 48  | -4 4 6    | 2  | 3.6 | 2.2(4) |       |       |       |         |      | 39 ERI     | 196  | -37  | 00710700 |     |
| 4328S | 4 11 56  | 10 22 7   | 9  | 2.5 | 1.8(5) |       |       |       | -10063  | 1318 | DO 727     | 204  | -39  | 00710700 |     |
| 4329S | 4 12 25  | -42 24 4  | 13 | 2.5 | 1.7(4) |       |       |       | -40030E | 1326 | ALF MOR    | 247  | -46  | 00710700 |     |
| 4330S | 4 12 48  | -7 42 3   | 15 | 3.3 | 1.8(4) |       |       |       | -10064  | 1325 | OM12 ERI   | 201  | -38  | 00710700 |     |
| 557S  | 4 13 1   | -13 21 7  | 11 | 2.6 | 1.7(5) |       |       |       |         |      | IC 2047    | 207  | -31  | 00710700 |     |
| 4331S | 4 13 10  | 50 43 7   | 17 | 2.1 | 1.7(5) |       |       |       | 50116   |      | GC 5151    | 152  | -45  | 00710700 |     |
| 4332S | 4 14 6   | -28 30 0  | 13 | 3.9 | 1.7(3) |       |       |       |         |      | DO 28164   | 227  | -45  | 00710700 |     |
| 4333S | 4 14 19  | 42 37 1   | 20 | 2.0 | 1.4(4) |       |       |       | 40081   |      | SVS 100378 | 158  | -6   | 00710700 |     |
| 4334S | 4 14 22  | 49 43 3   | 25 | 3.7 | 1.4(5) |       |       |       | 50117   |      |            | 153  | -0   | 00710700 |     |
| 4335S | 4 15 20  | 54 22 9   | 25 | 4.1 | 1.5(3) |       |       |       |         |      | DO 10410   | 150  | -3   | 00710700 |     |
| 4336S | 4 16 39  | 37 6 4    | 19 | 2.3 | 1.4(4) |       |       |       | 40084   |      | DG ERI     | 162  | -9   | 00710700 |     |
| 4337S | 4 18 17  | -17 4 4   | 14 | 4.1 | 1.5(5) |       |       |       | -20055  |      | GC 5265    | 212  | -41  | 00710700 |     |
| 4338S | 4 18 43  | 80 42 0   | 57 | 5.8 | 1.8(5) |       |       |       | 80010   | 1317 | GO PER     | 131  | -2   | 00710700 |     |
| 4339S | 4 19 43  | 36 6 8    | 19 | 2.4 | 1.5(4) |       |       |       | 40086   |      | DEL TAU    | 164  | -9   | 00710700 |     |
| 4340S | 4 19 49  | 17 26 8   | 17 | 3.0 | 1.4(4) |       |       |       | 20076   | 1373 | RW ERI     | 178  | -22  | 00710700 |     |
| 4341S | 4 20 1   | -5 34 6   | 15 | 3.2 | 1.6(4) |       |       |       | -10066  |      |            | 199  | -35  | 00710700 |     |
| 4342S | 4 20 23  | 62 47 9   | 28 | 4.0 | 1.6(4) |       |       |       |         |      |            | 145  | -9   | 00710700 |     |
| 4343S | 4 20 30  | -12 43 6  | 16 | 3.9 | 1.6(4) |       |       |       |         |      | IC 0368    | 207  | -39  | 00710700 |     |
| 575S  | 4 20 46  | 73 12 5   | 31 | 2.7 | 1.4(4) |       |       |       | -30034  |      | DM ERI     | 137  | -17  | 00710700 |     |
| 578S  | 4 21 40  | -27 55 3  | 7  | 2.2 | 1.4(4) |       |       |       |         |      |            | 227  | -43  | 00710700 |     |
| 4344S | 4 22 15  | 57 48 4   | 26 | 4.1 | 1.4(3) |       |       |       |         |      | EPS TAU    | 148  | -6   | 00710700 |     |
| 4345S | 4 25 29  | 19 5 7    | 17 | 3.0 | 1.3(4) |       |       |       | 20080   | 1409 | NGC 1580   | 173  | -20  | 00710700 |     |
| 580S  | 4 25 42  | -5 13 8   | 10 | 2.7 | 1.3(4) |       |       |       | -30035  |      |            | 200  | -24  | 00710700 |     |
| 4346S | 4 26 4   | -29 23 8  | 15 | 3.8 | 1.7(5) |       |       |       | 60142   |      | RY CAM     | 229  | -43  | 00710700 |     |
| 4347S | 4 26 11  | 64 17 4   | 29 | 4.0 | 1.6(4) |       |       |       | 50119   |      | DO 28355   | 144  | -11  | 00710700 |     |
| 4348S | 4 26 27  | 45 50 4   | 21 | 2.0 | 1.0(3) |       |       |       | 10062   |      | DO 787     | 158  | -2   | 00710700 |     |
| 584S  | 4 26 51  | 5 5 0     | 11 | 2.4 | 1.1(4) |       |       |       |         |      |            | 190  | -28  | 00710700 |     |
| 4349S | 4 27 18  | 16 3 6    | 16 | 2.8 | 1.6(4) |       |       |       | 20083   |      | DO 10526   | 180  | -22  | 00710700 |     |
| 4350S | 4 29 0   | 15 1 6    | 16 | 2.9 | 1.2(4) |       |       |       | 10063   |      | DO 10536   | 181  | -22  | 00710700 |     |
| 4351S | 4 29 26  | 52 41 9   | 24 | 1.7 | 1.2(4) |       |       |       | 50120   |      | DO 28376   | 153  | -3   | 00710700 |     |
| 4352S | 4 29 49  | -20 46 8  | 10 | 3.8 | 1.6(4) |       |       |       | -20058  |      | GC 5538    | 218  | -40  | 00710700 |     |
| 4353S | 4 31 26  | -0 4 5    | 16 | 3.6 | 1.1(4) |       |       |       | 52      |      | BD ERI     | 196  | -30  | 00710700 |     |
| 595S  | 4 31 26  | -29 50 3  | 9  | 2.1 | 1.7(4) |       |       |       | -30036  | 1453 | UP51 ERI   | 230  | -42  | 00710700 |     |
| 4354S | 4 31 50  | 29 38 2   | 18 | 2.7 | 1.1(4) |       |       |       | 30089   |      | EZ TAU     | 170  | -12  | 00710700 |     |
| 4355S | 4 35 18  | -24 23 4  | 13 | 4.0 | 1.3(3) |       |       |       |         |      |            | 223  | -39  | 00710700 |     |
| 611S  | 4 36 0   | 59 58 7   | 21 | 2.6 | 1.0(4) |       |       |       |         |      | AV PER     | 148  | -9   | 00710700 |     |
| 4356S | 4 36 5   | 41 32 8   | 12 | 2.5 | 1.0(4) |       |       |       |         |      |            | 162  | -3   | 00710700 |     |
| 4357S | 4 36 16  | -20 29 0  | 10 | 3.9 | 1.7(3) |       |       |       |         |      |            | 218  | -38  | 00710700 |     |
| 4358S | 4 37 10  | -33 0 0   | 10 | 3.8 | 1.0(3) |       |       |       | 40085   |      | MO PER     | 234  | -41  | 00710700 |     |
| 4359S | 4 37 56  | 40 5 8    | 21 | 3.0 | 1.3(5) |       |       |       |         |      |            | 163  | -4   | 00710700 |     |
| 4360S | 4 38 47  | 79 3 7    | 49 | 2.3 | 1.7(3) |       |       |       | -3.4(4) |      |            | 133  | -21  | 00710700 |     |
| 4361S | 4 38 47  | -20 5 8   | 12 | 4.0 | 1.7(3) |       |       |       |         |      |            | 218  | -37  | 00710700 |     |
| 4362S | 4 39 34  | -32 35 8  | 10 | 3.8 | 1.5(4) |       |       |       | -20060  |      |            | 234  | -40  | 00710700 |     |
| 4363S | 4 39 36  | -24 7 6   | 13 | 3.7 | 1.5(4) |       |       |       |         |      |            | 223  | -38  | 00710700 |     |
| 4364S | 4 39 46  | -27 28 5  | 10 | 3.8 | 1.5(3) |       |       |       | 50125   |      | SVS 431    | 227  | -39  | 00710700 |     |
| 4365S | 4 40 4   | 48 37 5   | 25 | 3.4 | 1.7(5) |       |       |       | 30082   |      | DO 10700   | 157  | -2   | 00710700 |     |
| 4366S | 4 40 58  | 25 16 1   | 17 | 2.6 | 1.6(3) |       |       |       |         |      |            | 175  | -13  | 00710700 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)      | M(11)     | M(20)     | M(27) | IRC       | RS      | COMMENTS      | L   | B   | I | OBS.     | LOG |
|-------|----------|-----------|----|-----|-----------|-----------|-----------|-------|-----------|---------|---------------|-----|-----|---|----------|-----|
|       | M        | S         |    |     |           |           |           |       |           |         |               |     |     |   |          |     |
| 43678 | 4 41 16  | 30 50.9   | 10 | 3.8 | 1.5(1.4)  |           |           |       | -30040    | 1509    | GC 5762       | 232 | -40 |   | 00000100 |     |
| 43683 | 4 41 34  | 11 36.0   | 18 | 3.0 | 1.9(1.4)  |           |           |       | 10069     |         | DO 844        | 186 | -21 |   | 00000100 |     |
| 43685 | 4 41 49  | 8 23.4    | 12 | 4.0 | 1.8(1.4)  | -7(1.4)   |           |       |           |         |               | 208 | -32 |   | 00000100 |     |
| 43695 | 4 42 20  | -17 50.2  | 10 | 3.9 | 2.0(1.3)  |           |           |       |           |         |               | 216 | -36 |   | 00000100 |     |
| 43705 | 4 42 26  | -2 41.4   | 10 | 2.8 | 1.8(1.3)  | -1.9(1.4) |           |       |           |         |               | 200 | -29 |   | 00000100 |     |
| 43715 | 4 42 52  | -21 24.7  | 12 | 4.0 | 1.5(1.4)  |           |           |       | -20061    | 1821    | DO 852        | 220 | -37 |   | 00000100 |     |
| 43705 | 4 42 52  | 14 58.0   | 12 | 3.1 | 1.7(1.4)  | -1.2(1.4) | -5.0(1.5) |       |           |         | GC 5794       | 184 | -19 |   | 00000200 |     |
| 43725 | 4 43 29  | -30 44.8  | 10 | 3.8 | 1.5(1.4)  | -3.3(1.4) |           |       | 40098     |         | DO 10735      | 232 | -33 |   | 00000100 |     |
| 43735 | 4 43 32  | 35 45.1   | 18 | 2.8 | 1.5(1.3)  |           |           |       |           |         |               | 167 | -6  |   | 00000100 |     |
| 43745 | 4 43 51  | -26 30.3  | 8  | 2.0 | 1.4(1.3)  |           |           |       |           |         |               | 226 | -38 |   | 00000100 |     |
| 43755 | 4 43 54  | 28 30.9   | 17 | 2.8 | 1.6(1.5)  |           |           |       | 30094     |         | DO 10739      | 175 | -13 |   | 00000100 |     |
| 43765 | 4 43 58  | 14 47.8   | 16 | 2.9 | 1.2(1.3)  |           |           |       |           |         |               | 184 | -19 |   | 00000100 |     |
| 43765 | 4 43 58  | -34 17.6  | 11 | 2.9 | 1.2(1.4)  |           |           |       | -8.8(1.8) | -30037E | T CAE         | 239 | -40 |   | 00000100 |     |
| 43775 | 4 43 52  | -5 26.3   | 10 | 2.3 | 1.7(1.3)  |           |           |       |           |         | IC 2094       | 203 | -30 |   | 00000100 |     |
| 43785 | 4 46 22  | 31 22.4   | 17 | 2.2 | 1.5(1.4)  |           |           |       | 30096     | 1828    | GC 5853       | 171 | -8  |   | 00000100 |     |
| 43795 | 4 47 14  | 28 1.8    | 18 | 2.8 | 1.7(1.4)  |           |           |       | 30097     |         | DO 10784      | 174 | -10 |   | 00000100 |     |
| 43805 | 4 47 23  | 6 50.1    | 17 | 3.5 | 1.7(1.5)  |           |           |       | 10071     | 1843    | P13 ORI       | 192 | -23 |   | 00000100 |     |
| 43815 | 4 47 38  | 52 8.6    | 24 | 2.0 | 1.7(1.4)  |           |           |       | 50129     |         | DO 28571      | 155 | 5   |   | 00000100 |     |
| 43825 | 4 47 44  | 68 51.5   | 36 | 4.1 | 1.7(1.4)  | -2.8(1.5) |           |       |           |         | SVS 100407.E0 | 142 | 16  |   | 00000100 |     |
| 43835 | 4 48 1   | 8 49.4    | 17 | 3.4 | 1.4(1.4)  |           |           |       |           |         |               | 190 | -22 |   | 00000100 |     |
| 4415  | 4 49 1   | -4 58.7   | 10 | 2.5 | 1.6(1.4)  |           |           |       |           |         | IC 2100       | 203 | -29 |   | 00000100 |     |
| 43835 | 4 49 12  | 28 53.6   | 17 | 2.1 | 1.7(1.4)  |           |           |       | 30099     |         | SVS 445       | 173 | -10 |   | 00000100 |     |
| 43845 | 4 49 28  | 36 36.6   | 14 | 1.8 | 1.1(1.4)  | -3.8(1.6) |           |       | 40102     | 1881    | 2 AUR         | 167 | -5  |   | 00000100 |     |
| 43855 | 4 50 32  | 49 49.2   | 26 | 3.3 | 1.6(1.5)  |           |           |       | 50130     |         | AU AUR        | 157 | 4   |   | 00000100 |     |
| 43865 | 4 50 39  | 38 8.0    | 20 | 2.5 |           | -2.8(1.4) |           |       |           |         |               | 166 | -3  |   | 00000100 |     |
| 43865 | 4 50 51  | -22 5.7   | 12 | 2.9 | 1.4(1.3)  |           |           |       |           |         |               | 222 | -35 |   | 00000100 |     |
| 43875 | 4 51 17  | 69 17.1   | 41 | 3.5 |           | -3.8(1.4) |           |       | 50132     |         | TV AUR        | 142 | 16  |   | 00000100 |     |
| 43875 | 4 51 17  | 48 28.2   | 17 | 1.9 | 1.3(1.4)  |           |           |       |           |         |               | 159 | 4   |   | 00000100 |     |
| 43875 | 4 53 21  | -34 23.2  | 11 | 3.8 |           | -2.5(1.4) |           |       |           |         |               | 237 | -37 |   | 00000100 |     |
| 43885 | 4 57 26  | 32 43.8   | 13 | 1.7 | 1.8(1.4)  |           |           |       |           |         |               | 171 | -6  |   | 00000100 |     |
| 43905 | 4 58 19  | 43 45.2   | 15 | 1.9 | 1.1(1.4)  |           |           |       | 40109     | 1808    | EPS AUR       | 183 | 1   |   | 00000100 |     |
| 43935 | 4 59 10  | -1 55.9   | 16 | 3.3 | 1.7(1.4)  |           |           |       |           |         |               | 201 | -25 |   | 00000100 |     |
| 43985 | 4 59 43  | -26 16.6  | 10 | 2.6 | 1.6(1.5)  | -3.2(1.5) |           |       | -30041    | 1838    | GC 6160       | 227 | -35 |   | 00000100 |     |
| 43995 | 5 0 24   | 9 17.1    | 16 | 3.1 | 1.7(1.4)  |           |           |       |           |         |               | 191 | -19 |   | 00000100 |     |
| 43995 | 5 0 48   | -22 54.3  | 18 | 3.5 | 1.8(1.5)  |           |           |       | -20065    | 1834    | 1 LEP         | 224 | -33 |   | 00000100 |     |
| 43995 | 5 2 27   | 21 35.0   | 17 | 2.8 | 1.5(1.3)  |           |           |       |           |         |               | 181 | -12 |   | 00000100 |     |
| 43995 | 5 2 32   | -35 35.5  | 11 | 3.8 | 1.8(1.3)  |           |           |       | -30041E   | 1882    | GAM CAE       | 239 | -36 |   | 00000100 |     |
| 43995 | 5 2 51   | 38 39.2   | 14 | 1.7 | 2.0(1.4)  |           |           |       | 40112     |         | DO 11024      | 167 | -1  |   | 00000100 |     |
| 43995 | 5 3 58   | 0 28.0    | 16 | 3.4 | 1.2(1.4)  | -1.2(1.4) |           |       | 67        |         | V430 ORI      | 200 | -23 |   | 00000100 |     |
| 43995 | 5 5 39   | 38 55.9   | 20 | 2.4 |           | -3.4(1.5) |           |       | 40115     |         | TX AUR.E0     | 167 | -1  |   | 00000100 |     |
| 43995 | 5 6 19   | 79 41.3   | 61 | 2.0 | 1.7(1.4)  | -9(1.4)   |           |       |           |         |               | 133 | 23  |   | 00000100 |     |
| 43995 | 5 6 34   | -24 53.2  | 8  | 2.1 | -1.5(1.4) | -3.4(1.4) |           |       |           |         |               | 226 | -33 |   | 00000100 |     |
| 43995 | 5 6 56   | 8 52.6    | 10 | 2.7 | 2.0(1.4)  | -3.1(1.6) |           |       |           |         | SVS 100453    | 209 | -27 |   | 00000100 |     |
| 43995 | 5 7 2    | 37 14.7   | 19 | 2.4 | 1.7(1.4)  |           |           |       | 40117     | 1869    | DO 11078      | 189 | -1  |   | 00000100 |     |
| 43995 | 5 7 50   | -12 18.3  | 13 | 4.0 | 1.8(1.3)  |           |           |       |           |         |               | 213 | -28 |   | 00000100 |     |
| 43995 | 5 8 43   | 13 58.5   | 17 | 2.8 | 1.4(1.4)  |           |           |       | 20102     | 1894    | GC 8350       | 187 | -14 |   | 00000100 |     |
| 43995 | 5 8 4    | 38 35.6   | 20 | 2.5 | 1.4(1.4)  |           |           |       |           |         | DO 11105      | 158 | -0  |   | 00000100 |     |
| 43995 | 5 8 24   | 80 48.9   | 98 | 3.3 | -1.1(1.4) |           |           |       |           |         | DO 11105      | 132 | 23  |   | 00000100 |     |
| 43995 | 5 10 7   | -8 8.0    | 16 | 3.4 | -1.1(1.4) |           |           |       |           |         |               | 209 | -26 |   | 00000100 |     |
| 43995 | 5 11 7   | -27 9.6   | 12 | 3.9 | 2.0(1.4)  |           |           |       | -30042    |         | GC 8389       | 229 | -32 |   | 00000100 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)    | M(11)    | M(20)    | M(27)    | INC | RS   | COMMENTS   | L 11 | B 11 | OBS. LOG |
|-------|----------|-----------|----|-----|---------|----------|----------|----------|-----|------|------------|------|------|----------|
| 43995 | 5 11 27  | 77 9.2    | 56 | 4.0 | 1.3(.3) |          |          |          |     |      |            | 136  | 22   | 07312200 |
| 7125  | 5 12 57  | 45 31.1   | 22 | 2.2 | 1.4(.4) | -5(.4)   |          |          |     |      | DO 29110   | 163  | 4    | 00007300 |
| 44005 | 5 13 26  | 47 24.2   | 23 | 2.8 | 1.3(.4) |          |          | 50140    |     |      | DO 29113   | 161  | 5    | 00007100 |
| 7185  | 5 14 1   | 51 22.2   | 26 | 2.9 | 1.0(.4) |          |          |          |     |      |            | 159  | 8    | 00007100 |
| 7195  | 5 14 26  | 27 13.5   | 17 | 2.2 | 1.6(.4) |          |          |          |     |      |            | 170  | -6   | 00007100 |
| 7265  | 5 15 26  | 25 45.8   | 8  | 2.7 | 1.4(.3) |          | -2.8(.4) |          |     |      | DO 29147   | 228  | -31  | 00007000 |
| 7275  | 5 15 45  | 43 15.7   | 21 | 2.3 | 1.4(.3) |          |          |          |     |      | SVS 6165   | 165  | 3    | 00007100 |
| 44015 | 5 15 54  | 35 44.1   | 18 | 2.0 | 1.4(.4) |          |          | 40120    |     |      |            | 171  | -1   | 00007100 |
| 44025 | 5 16 18  | -49 11.6  | 23 | 3.5 | 1.4(.4) |          | -4.1(.6) |          |     |      |            | 256  | -35  | 00007004 |
| 44035 | 5 17 26  | -33 46.6  | 9  | 3.7 | 1.1(.4) |          |          | -30045E  |     |      | T COL      | 237  | -33  | 00100000 |
| 44045 | 5 18 25  | 7 19.4    | 16 | 3.1 | 1.6(.5) | -1.1(.4) |          | 10083    |     |      | DO 1065    | 195  | -16  | 00000000 |
| 44055 | 5 18 29  | 73 40.3   | 36 | 3.9 | 1.0(.3) | -1.1(.4) |          | 70061    |     |      | DO 29148   | 139  | 20   | 03+7200  |
| 44065 | 5 19 14  | 60 38.1   | 32 | 3.0 | 1.0(.4) |          |          | 50156    |     |      | DO 29181   | 151  | 14   | 00+7200  |
| 44075 | 5 19 22  | 46 57.2   | 23 | 2.7 | 1.6(.4) |          |          | 50142    |     |      | DO 29204   | 162  | 6    | 00007100 |
| 7365  | 5 19 48  | -8 42.6   | 10 | 2.6 | 1.6(.4) |          |          | -10086   |     |      | GC 6602    | 211  | -24  | 00007100 |
| 44085 | 5 19 50  | 50 10.4   | 24 | 2.2 | 1.4(.4) |          |          | 50143    |     |      | DO 29202   | 160  | 8    | 00007100 |
| 7375  | 5 21 8   | 20 14.3   | 17 | 2.9 | 1.2(.3) |          |          |          |     |      |            | 185  | -9   | 00007100 |
| 7415  | 5 22 7   | 33 53.2   | 17 | 1.9 | 1.6(.4) |          |          |          |     |      | DO 1094    | 173  | -1   | 00007100 |
| 44095 | 5 22 21  | 1 9.8     | 15 | 4.2 | 1.4(.4) |          |          | 73       |     |      | BRIGHT NEB | 202  | -19  | 00007100 |
| 7435  | 5 22 42  | -0 18.3   | 11 | 2.6 | 1.6(.4) |          |          |          |     |      |            | 203  | -19  | 00007100 |
| 44105 | 5 22 50  | -70 23.4  | 16 | 3.4 | 1.4(.4) |          |          | -10092   |     | 1799 | GC 6672    | 213  | -24  | 00007100 |
| 44115 | 5 22 52  | 50 4.2    | 25 | 2.8 | 1.5(.4) |          |          | 50144    |     |      | AC AUR     | 160  | 8    | 00007100 |
| 44125 | 5 23 16  | 20 33.8   | 12 | 1.9 | 1.5(.4) |          | -3.7(.5) |          |     |      | SVS 565    | 185  | -8   | 00004400 |
| 44135 | 5 23 23  | -25 49.3  | 12 | 3.9 | 1.4(.3) |          |          | 30113    |     |      | EG AUR     | 233  | -31  | 00007100 |
| 44145 | 5 23 26  | 32 2.2    | 17 | 1.3 | 1.8(.4) |          |          |          |     |      |            | 175  | -2   | 00007100 |
| 7455  | 5 23 39  | -33 34.4  | 9  | 3.7 |         |          | -3.8(.4) |          |     |      |            | 237  | -32  | 00007100 |
| 44155 | 5 23 46  | 36 50.9   | 13 | 1.6 | 1.7(.4) |          |          | 40127    |     | 1806 | W AUR      | 171  | 1    | 00007100 |
| 44165 | 5 24 13  | 34 24.6   | 18 | 1.9 | 1.6(.4) |          |          | 30116    |     |      | PHI AUR    | 173  | -0   | 00007100 |
| 44175 | 5 26 4   | 0 3.7     | 15 | 4.1 | 1.6(.4) |          | -2(.4)   |          |     |      | BRIGHT NEB | 203  | -18  | 00007100 |
|       |          |           |    |     |         |          |          | 30118    |     |      | DO 11364   | 176  | -1   | 00007100 |
| 7605  | 5 27 34  | 15 6.3    | 16 | 3.0 |         |          | -3.9(.4) |          |     |      |            | 190  | -10  | 00004700 |
| 44185 | 5 27 54  | -42 39.5  | 11 | 2.6 |         |          | -3.8(.5) |          |     |      |            | 246  | -33  | 00004700 |
| 44195 | 5 29 28  | -6 55.8   | 10 | 2.6 |         |          |          |          |     |      | V689 ORI   | 210  | -21  | 00007100 |
| 7655  | 5 29 13  | -12 24.9  | 10 | 2.6 | 1.7(.3) | -5(.4)   |          |          |     |      |            | 215  | -23  | 00007100 |
| 44205 | 5 30 8   | -6 17.7   | 14 | 4.0 |         | -1.8(.4) |          |          |     |      | BRIGHT NEB | 210  | -20  | 00007100 |
| 44215 | 5 30 29  | -41 4.5   | 27 | 2.2 | 1.4(.4) |          |          | 40133    |     |      | SVS 100502 | 168  | 4    | 00007100 |
| 44225 | 5 31 0   | -25 23.2  | 12 | 3.9 | 1.8(.4) |          |          | -30045   |     |      |            | 229  | -28  | 00007100 |
| 7725  | 5 31 13  | -5 19.3   | 10 | 2.6 | 1.2(.3) | -7(.4)   |          |          |     |      | V468 ORI   | 209  | -29  | 00007100 |
| 44235 | 5 31 22  | 60 33.7   | 31 | 2.0 | 1.2(.3) |          |          |          |     |      |            | 152  | 15   | 00007100 |
| 44245 | 5 31 40  | -1 30.9   | 16 | 3.2 | 1.6(.4) |          |          |          |     |      | GC 6894    | 205  | -18  | 00007100 |
| 7745  | 5 31 53  | 54 54.1   | 19 | 1.7 | 1.8(.4) |          |          | 50147    |     |      | DO 29442   | 157  | 12   | 00007100 |
| 44255 | 5 32 29  | -6 9.2    | 14 | 4.0 |         |          | -4.0(.4) |          |     |      | V788 ORI   | 210  | -20  | 00007100 |
| 7835  | 5 32 52  | -5 8.5    | 14 | 4.0 | 1.7(.3) |          |          | V415 ORI |     |      |            | 209  | -19  | 00007100 |
| 7845  | 5 33 1   | 20 58.3   | 17 | 2.9 | 1.0(.3) |          |          |          |     |      |            | 186  | -6   | 00007100 |
| 44265 | 5 33 36  | 75 2.6    | 35 | 2.5 | 2.0(.4) | -1.1(.5) |          | 80011    |     | 1844 | SVS 100501 | 138  | 22   | 02221700 |
| 44275 | 5 33 39  | -1 50.3   | 10 | 2.4 | 1.2(.3) |          |          |          |     |      | NFE 7      | 208  | -18  | 00007100 |
| 44285 | 5 33 41  | -1 14.8   | 15 | 4.1 | 1.3(.3) |          |          | -30046   |     |      | EPS ORI    | 205  | -17  | 00007100 |
| 44295 | 5 33 46  | -25 45.7  | 17 | 3.4 | 1.8(.4) |          |          | 79       |     | 1903 |            | 229  | -27  | 00007100 |
| 44305 | 5 34 14  | 9 16.0    | 16 | 2.9 | 1.8(.4) |          |          | 10091    |     | 1907 | PHI2 ORI   | 196  | -12  | 00007100 |
| 44315 | 5 34 26  | -44 9.2   | 8  | 3.6 | 1.7(.4) |          |          | -40041E  |     |      |            | 250  | -32  | 00100000 |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)    | M(11)  | M(20) | IRC     | BS   | COMMENTS   | L 11 | B 11 | OBS.      | LOG |
|-------|----------|-----------|----|-----|---------|--------|-------|---------|------|------------|------|------|-----------|-----|
| 44323 | 5 36 11  | 21 54.6   | 17 | 2.5 | 1.6(.4) |        |       | 20114   |      | DO 11422   | 185  | -5   | 0000.7100 |     |
| 44335 | 5 36 29  | -7 20.1   | 14 | 4.0 |         | .2(.4) |       |         |      | V599 ORI   | 211  | -19  | 0021.0700 |     |
| 44345 | 5 37 14  | 65 40.5   | 26 | 2.3 | 2.0(.4) |        |       | 70065   | 1916 | GC 7058    | 147  | 18   | 0071.2200 |     |
| 44355 | 5 37 15  | 51 36.5   | 25 | 2.5 | 1.5(.4) |        |       | 50150   |      | DO 29533   | 160  | 11   | 0050.7100 |     |
| 44365 | 5 37 59  | -34 8.1   | 8  | 3.6 | 1.2(.4) |        |       | -30052E | 1956 | ALF COL    | 239  | -29  | 0010.0000 |     |
| 44375 | 5 38 58  | -27 55.4  | 9  | 3.6 | 1.4(.4) |        |       | -30048  |      |            | 232  | -27  | 0010.0000 |     |
| 44385 | 5 39 19  | -20 47.6  | 10 | 2.6 | 1.5(.4) |        |       | 10095   |      | FX ORI     | 225  | -24  | 0071.0100 |     |
| 44395 | 5 39 21  | 14 47.7   | 16 | 2.7 | 1.1(.4) |        |       |         |      | DZ TAU     | 192  | -8   | 0000.0100 |     |
| 44405 | 5 39 40  | 21 58.4   | 17 | 2.4 | 1.7(.5) |        |       |         |      | 51 ORI     | 186  | -4   | 0050.7300 |     |
| 44415 | 5 40 45  | 1 29.4    | 15 | 4.1 | 1.4(.4) |        |       | 93      | 1943 |            | 203  | -15  | 0061.0000 |     |
| 44425 | 5 41 08  | -23 47.6  | 8  | 2.5 | 1.0(.4) |        |       | -20077  |      | RT LEP     | 226  | -25  | 0041.0000 |     |
| 44435 | 5 41 29  | 64 45.4   | 37 | 4.1 | 1.3(.4) |        |       | 60158   |      | DO 25598   | 148  | 18   | 0041.7200 |     |
| 44445 | 5 42 2   | -33 27.9  | 8  | 3.7 | 1.3(.4) |        |       | -30053E |      | GC 7167    | 238  | -28  | 0010.0000 |     |
| 44455 | 5 42 23  | 37 39.9   | 20 | 1.7 | 1.7(.5) |        |       | 40139   |      | DO 11538   | 173  | 5    | 0300.1100 |     |
| 44465 | 5 43 21  | -22 24.4  | 9  | 3.7 | 1.4(.4) |        |       | -20078  | 1933 | GAM LEP    | 227  | -24  | 0011.0300 |     |
| 44475 | 5 44 0   | 47 17.8   | 23 | 2.5 | 1.7(.3) |        |       |         |      |            | 164  | 10   | 0010.4700 |     |
| 44485 | 5 44 5   | -23 37.9  | 3  | 3.6 | 1.6(.3) |        |       | -20079  |      | GC 7231    | 203  | -13  | 0010.0000 |     |
| 44495 | 5 45 4   | 0 4.4     | 0  | 2.0 | 1.7(.4) |        |       |         |      | MCC 2067   | 228  | -24  | 0040.0000 |     |
| 44505 | 5 45 6   | 28 30.3   | 10 | 2.1 | 1.3(.3) |        |       |         |      | FS AUR     | 205  | -14  | 0060.0200 |     |
| 44515 | 5 45 41  | 39 9.3    | 20 | 2.7 | 1.7(.4) |        |       | 40142   | 1995 | TAU AUR    | 172  | 6    | 0000.1700 |     |
| 44525 | 5 46 14  | -15 33.2  | 0  | 3.6 | 1.3(.3) |        |       |         |      |            | 220  | -21  | 0011.0700 |     |
| 44535 | 5 46 41  | 13 10.4   | 16 | 2.7 | 1.2(.4) |        |       | 10096   |      | EL TAU     | 194  | -7   | 0050.0100 |     |
| 44545 | 5 47 51  | 39 8.1    | 31 | 1.7 | 1.0(.4) |        |       | 40144   | 2012 | MU AUR     | 172  | 6    | 0030.2100 |     |
| 44555 | 5 48 9   | 65 43.0   | 21 | 3.7 | 1.5(.4) |        |       |         |      |            | 148  | 19   | 0042.7200 |     |
| 44565 | 5 48 37  | 0 12.9    | 16 | 3.1 | 1.5(.4) |        |       |         |      |            | 206  | -13  | 0030.0100 |     |
| 44575 | 5 49 21  | 61 31.0   | 32 | 3.2 | 1.8(.3) |        |       |         |      |            | 152  | 17   | 0070.1700 |     |
| 44585 | 5 50 15  | 64 57.0   | 16 | 1.7 | 1.5(.3) |        |       |         |      |            | 149  | 19   | 0023.7100 |     |
| 44595 | 5 51 40  | -1 3.6    | 11 | 2.5 | 1.8(.4) |        |       | 60180   |      | SVS 6403   | 207  | -13  | 0010.0100 |     |
| 44605 | 5 51 45  | 20 14.1   | 17 | 2.5 | 1.8(.4) |        |       | 20126   | 2047 | SVS 6408   | 189  | -3   | 0000.0000 |     |
| 44615 | 5 52 17  | -47 8     | 21 | 3.7 |         |        |       |         |      | CHI ORI    |      |      |           |     |
| 44625 | 5 52 24  | 41 29.3   | 20 | 1.6 |         |        |       |         |      |            | 254  | -29  | 0000.0004 |     |
| 44635 | 5 53 8   | 2 18.7    | 18 | 4.1 | 1.6(.3) |        |       |         |      |            | 170  | 8    | 0000.7200 |     |
| 44645 | 5 53 49  | 20 17.0   | 17 | 2.5 | 1.6(.3) |        |       | 20128   |      | DO 11744   | 204  | -11  | 0031.0000 |     |
| 44655 | 5 54 9   | 6 45.4    | 16 | 4.0 | 1.1(.3) |        |       |         |      |            | 189  | -2   | 0050.0100 |     |
| 44665 | 5 54 28  | -14 10.9  | 14 | 3.9 | 1.7(.4) |        |       | -10102  | 2065 | DO 1340    | 201  | -9   | 0031.0300 |     |
| 44675 | 5 56 41  | -1 6.7    | 11 | 2.5 | 1.8(.4) |        |       |         |      | ETA LEP    | 220  | -18  | 0031.0000 |     |
| 44685 | 5 56 41  | -10 53.5  | 16 | 3.1 | 1.5(.5) |        |       | 94      |      | DO 1352    | 208  | -12  | 0031.0200 |     |
| 44695 | 5 57 43  | -3 6.4    | 15 | 4.0 | 1.5(.4) |        |       | -10104  |      |            | 217  | -17  | 0024.0100 |     |
| 44705 | 5 58 34  | 6 1.7     | 16 | 4.0 | 1.5(.3) |        |       | 95      | 2113 | SVS 100707 | 210  | -13  | 0031.0000 |     |
| 44715 | 5 58 50  | 10 38.4   | 17 | 3.9 | 1.2(.4) |        |       |         |      |            | 202  | -8   | 0031.0000 |     |
| 44725 | 5 59 9   | 75 37.3   | 59 | 4.0 | 2.0(.4) |        |       | 10102   | 2078 | DO 1385    | 198  | -6   | 0010.0000 |     |
| 44735 | 5 59 20  | -19 40.9  | 11 | 3.9 | 1.7(.3) |        |       | 90012   |      | DO 29860   | 138  | 23   | 0711.7200 |     |
| 44745 | 5 59 21  | 1 51.0    | 16 | 4.1 |         |        |       |         |      |            | 226  | -20  | 0017.0700 |     |
| 44755 | 5 59 28  | -33 54.0  | 9  | 1.9 | 1.4(.4) |        |       | -30081E | 2131 | GC 7630    | 206  | -10  | 0032.0300 |     |
| 44765 | 5 59 29  | 8 25.7    | 16 | 4.0 | 1.7(.4) |        |       | 10104   |      | DR ORI     | 240  | -24  | 0010.0000 |     |
| 44775 | 5 59 31  | -2 56.2   | 15 | 4.0 | 1.7(.4) |        |       |         |      |            | 200  | -7   | 0031.0000 |     |
| 44785 | 5 59 40  | -21 7.3   | 16 | 3.3 | 1.5(.4) |        |       | -20083  |      |            | 210  | -12  | 0031.0000 |     |
| 44795 | 5 59 40  | 46 17.7   | 22 | 3.3 | 1.4(.4) |        |       |         |      | RS AUR     | 227  | -20  | 0071.0100 |     |
| 44805 | 5 59 40  | -50 41.9  | 23 | 3.7 |         |        |       |         |      | MCC 2152   | 167  | 12   | 0001.7200 |     |
| 44815 | 5 59 40  |           |    |     |         |        |       |         |      |            | 258  | -28  | 0000.0004 |     |

[illegible]

TABLE OF OBSERVATIONS

| GL    | RA(1980) | DEC(1950) | EA | ED  | M(4)    | M(11) | M(20) | M(27) | IRC          | BS | COMMENTS   | L II | S II | OBS.      | LOG |
|-------|----------|-----------|----|-----|---------|-------|-------|-------|--------------|----|------------|------|------|-----------|-----|
| 45035 | 6 29 32  | -32 51 9  | 12 | 3.9 | 1.7(-4) |       |       |       | -30063       |    | GC 8490    | 241  | -12  | 00100000  |     |
| 45045 | 6 29 52  | -36 55.7  | 12 | 3.9 | 1.4(-4) |       |       |       | -30068E 2383 |    | GC 8458    | 245  | -20  | 06100000  |     |
| 45055 | 6 30 1   | -37 4.4   | 12 | 3.9 | 1.8(-5) |       |       |       | -30084       |    |            | 236  | -16  | 00100000  |     |
| 45065 | 6 30 37  | 30 18.2   | 18 | 2.2 | 1.7(-5) |       |       |       | 30155        |    | AI AUR     | 184  | 10   | 00000000  |     |
| 45075 | 6 30 38  | -18 54.5  | 15 | 3.6 | 1.3(-4) |       |       |       | -10130       |    |            | 220  | -9   | 00000000  |     |
| 45085 | 6 30 40  | 10 20.0   | 16 | 3.6 |         |       |       |       | MCC 2247     |    |            | 202  | 1    | 00000000  |     |
| 45095 | 6 31 51  | 60 43.2   | 18 | 2.1 | 1.3(-3) |       |       |       |              |    |            | 155  | 22   | 004117+00 |     |
| 45105 | 6 32 0   | -28 13.7  | 12 | 3.9 | 1.6(-3) |       |       |       | -30070E 2411 |    | GC 8539.ED | 238  | -16  | 00100000  |     |
| 45115 | 6 32 7   | -36 11.7  | 12 | 3.9 | 1.3(-3) |       |       |       | 117          |    | DO 1646    | 245  | -19  | 00100000  |     |
| 45125 | 6 32 34  | -1 20.8   | 15 | 3.7 | 1.1(-4) |       |       |       |              |    |            | 212  | -4   | 000100700 |     |
| 45135 | 6 33 1   | 78 2.5    | 53 | 1.8 | 1.6(-4) |       |       |       | 80014 2382   |    | GC 8574    | 136  | 26   | 072217100 |     |
| 45145 | 6 34 32  | -16 13.6  | 10 | 2.8 | 1.3(-4) |       |       |       | -20086 2428  |    | MU2 CMA    | 229  | -12  | 001100000 |     |
| 45155 | 6 34 38  | 81 46.8   | 63 | 2.2 | 1.3(-3) |       |       |       |              |    |            | 132  | 27   | 0711+700  |     |
| 45165 | 6 34 41  | 10 57.2   | 14 | 3.6 | 1.7(-3) |       |       |       | -20097       |    |            | 202  | 2    | 000100700 |     |
| 45175 | 6 34 48  | -22 14.2  | 10 | 2.7 | 1.2(-4) |       |       |       | 116          |    | CR MON     | 232  | -13  | 001200000 |     |
| 45185 | 6 34 51  | 0 57.6    | 18 | 3.6 | 1.9(-5) |       |       |       |              |    |            | 211  | -3   | 000100700 |     |
| 45195 | 6 35 7   | -2 46.6   | 18 | 3.7 | 1.4(-3) |       |       |       | 40160 2427   |    | PS12 AUR   | 214  | -4   | 000100700 |     |
| 45205 | 6 35 2   | 42 31.2   | 20 | 1.6 | 1.5(-3) |       |       |       | GC 8664      |    |            | 173  | 16   | 0003+0100 |     |
| 45215 | 6 35 4   | -2 32.4   | 15 | 3.7 | 1.9(-4) |       |       |       | 30160        |    | DO 12410   | 214  | -4   | 000100700 |     |
| 45225 | 6 36 30  | 26 10.5   | 18 | 3.1 | 1.8(-3) |       |       |       |              |    |            | 188  | 9    | 000100700 |     |
| 45235 | 6 36 33  | 13 17.4   | 9  | 1.9 | 2.4(-7) |       |       |       |              |    | EE GEN     | 200  | 3    | 000700500 |     |
| 45245 | 6 37 1   | 20 31.5   | 12 | 2.1 | 1.8(-4) |       |       |       | 30156        |    | DO 12420   | 193  | 7    | 000100100 |     |
| 45255 | 6 37 40  | -6 14.9   | 15 | 3.7 | 1.7(-4) |       |       |       | -10136       |    |            | 317  | -8   | 000500000 |     |
| 45265 | 6 38 8   | 9 47.8    | 11 | 2.2 |         |       |       |       | 10132 2488   |    | V422 MON   | 203  | 2    | 000200200 |     |
| 45275 | 6 38 33  | 11 3.3    | 10 | 2.5 | 1.1(-3) |       |       |       | -20101       |    | DO 1712    | 202  | 3    | 000100700 |     |
| 45285 | 6 39 9   | -22 16.2  | 13 | 4.0 | .8(-3)  |       |       |       | 123          |    | SVS 836    | 232  | -12  | 001000000 |     |
| 45295 | 6 39 10  | -4 33.1   | 11 | 2.4 |         |       |       |       | -10137 2488  |    | V372 MON   | 216  | -4   | 032200000 |     |
| 45305 | 6 39 15  | -16 57.8  | 14 | 4.1 | 1.5(-3) |       |       |       | 70070        |    | GC 8756    | 227  | -10  | 001100300 |     |
| 45315 | 6 39 22  | -9 6.0    | 15 | 3.7 | 1.3(-4) |       |       |       |              |    | IC 0449    | 220  | -4   | 000100000 |     |
| 45325 | 6 40 36  | 71 28.2   | 48 | 2.5 | 1.8(-5) |       |       |       | -20103       |    |            | 144  | 25   | 077717100 |     |
| 45335 | 6 40 40  | -20 6.2   | 15 | 3.7 | 1.4(-4) |       |       |       | 10134        |    | 30 GEN     | 230  | -11  | 007100000 |     |
| 45345 | 6 41 10  | 13 18.3   | 17 | 3.5 | 1.2(-3) |       |       |       | 40162        |    | DO 30802   | 200  | 4    | 000100700 |     |
| 45355 | 6 41 12  | 40 39.3   | 20 | 1.8 | 1.1(-4) |       |       |       | 10137        |    | DO 1746    | 175  | 16   | 0003+0100 |     |
| 45365 | 6 42 49  | 8 6.6     | 16 | 3.6 | 1.4(-3) |       |       |       | 80172 2487   |    |            | 205  | 2    | 000100700 |     |
| 45375 | 6 44 7   | 49 19.7   | 24 | 3.0 |         |       |       |       | 126          |    | PS16 AUR   | 167  | 20   | 000747700 |     |
| 45385 | 6 44 18  | 48 50.5   | 24 | 2.6 | 1.7(-4) |       |       |       | 127          |    | MR MON     | 167  | 20   | 000100700 |     |
| 45395 | 6 44 35  | 1 35.0    | 15 | 3.6 | 1.3(-3) |       |       |       | 10139        |    | DF MON     | 211  | -0   | 001000700 |     |
| 45405 | 6 45 4   | 0 43.7    | 15 | 3.6 | 1.5(-4) |       |       |       |              |    | DO 1774    | 212  | -1   | 000100700 |     |
| 45415 | 6 45 43  | 5 35.0    | 16 | 3.7 | 1.7(-4) |       |       |       |              |    |            | 208  | 2    | 000100700 |     |
| 45425 | 6 45 43  | 5 35.0    | 16 | 3.7 | 1.7(-4) |       |       |       |              |    |            | 227  | -8   | 001+00000 |     |
| 45435 | 6 45 59  | -16 13.9  | 14 | 4.1 | 1.3(-3) |       |       |       | 30167 2612   |    | IS GEN     | 183  | 14   | 000100700 |     |
| 45445 | 6 46 23  | 32 37.3   | 19 | 2.7 | 1.7(-4) |       |       |       | 129          |    | V377 MON   | 214  | -1   | 000100300 |     |
| 45455 | 6 46 43  | -1 38.4   | 15 | 3.6 | 2.1(-5) |       |       |       | 10141        |    | DO 1783    | 202  | 5    | 000300700 |     |
| 45465 | 6 47 5   | 12 9.6    | 10 | 2.5 | 1.7(-4) |       |       |       | 20160        |    |            | 199  | 7    | 000+01000 |     |
| 45475 | 6 48 1   | 15 10.3   | 16 | 2.6 | 1.3(-4) |       |       |       | 20162        |    | DO 12613   | 196  | 9    | 000100700 |     |
| 45485 | 6 49 27  | 18 44.4   | 16 | 3.5 | 1.8(-5) |       |       |       |              |    | SVS 100778 | 224  | -5   | 001+00000 |     |
| 45495 | 6 50 24  | -12 8.3   | 15 | 4.1 | 1.7(-4) |       |       |       |              |    |            | 209  | 3    | 000100700 |     |
| 45505 | 6 50 30  | 4 51.7    | 15 | 3.5 | 1.4(-3) |       |       |       |              |    |            | 247  | -16  | 001000000 |     |
| 45515 | 6 50 32  | -37 9.0   | 13 | 3.9 | 1.5(-3) |       |       |       | -20111       |    |            | 233  | -9   | 001000000 |     |
| 45525 | 6 51 0   | -21 49.9  | 14 | 4.0 | 2.0(-5) |       |       |       |              |    |            | 232  | -4   | 007400000 |     |
| 45535 | 6 51 3   | -10 1.4   | 14 | 3.6 |         |       |       |       |              |    |            |      |      |           |     |



TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)     | M(11) | M(20) | M(27) | IRC | BS | COMMENTS | L 11 | O 11 | OBS.       | LOG |
|-------|----------|-----------|----|-----|----------|-------|-------|-------|-----|----|----------|------|------|------------|-----|
| 10325 | 6 51 26  | -27 42.4  | 13 | 3.2 | 1.8(1.3) |       |       |       |     |    |          | 238  | -12  | 001000000  |     |
| 45405 | 6 51 26  | 33 15.4   | 18 | 3.2 |          |       |       |       |     |    |          | 183  | 15   | 000740700  |     |
| 45415 | 6 51 34  | 0 49.7    | 15 | 3.6 | 1.6(1.4) |       |       |       |     |    |          | 213  | 1    | 000100000  |     |
| 45425 | 6 52 23  | 53 30.7   | 30 | 2.9 | 1.6(1.4) |       |       |       |     |    |          | 158  | 24   | 007717000  |     |
| 45435 | 6 52 33  | 57 34.5   | 27 | 4.1 | 1.6(1.4) |       |       |       |     |    |          | 159  | 23   | 001777000  |     |
| 10375 | 6 52 40  | -14 47.0  | 15 | 3.6 | 1.9(1.4) |       |       |       |     |    |          | 227  | -6   | 00+3000000 |     |
| 45445 | 6 52 59  | -42 21.7  | 14 | 3.9 | 1.6(1.3) |       |       |       |     |    |          | 252  | -17  | 001000000  |     |
| 45455 | 6 53 23  | 47 39.8   | 23 | 2.6 | 1.6(1.4) |       |       |       |     |    |          | 169  | 21   | 000170700  |     |
| 10465 | 6 55 30  | 15 45.7   | 17 | 3.4 | 1.5(1.3) |       |       |       |     |    |          | 200  | 9    | 000100700  |     |
| 10475 | 6 55 54  | -13 12.1  | 14 | 4.0 | 1.5(1.3) |       |       |       |     |    |          | 231  | -7   | 002000000  |     |
| 10485 | 6 56 3   | 8 31.5    | 16 | 3.6 | 1.6(1.3) |       |       |       |     |    |          | 206  | 5    | 006100700  |     |
| 45495 | 6 56 30  | 26 5.1    | 18 | 3.1 | 1.1(1.4) |       |       |       |     |    |          | 190  | 13   | 000100700  |     |
| 45475 | 6 52 27  | -14 17.1  | 15 | 3.6 | 2.1(1.5) |       |       |       |     |    |          | 227  | -4   | 007105000  |     |
| 10545 | 6 59 4   | 15 43.9   | 17 | 3.4 | 1.6(1.3) |       |       |       |     |    |          | 200  | 9    | 000100700  |     |
| 45485 | 6 59 25  | -3 39.6   | 15 | 3.6 | 1.5(1.4) |       |       |       |     |    |          | 217  | 1    | 000100000  |     |
| 45495 | 6 59 39  | -5 40.5   | 15 | 3.6 | 1.6(1.3) |       |       |       |     |    |          | 219  | -0   | 000100000  |     |
| 45505 | 6 59 58  | -15 35.1  | 15 | 3.6 | 1.6(1.4) |       |       |       |     |    |          | 228  | -5   | 007100000  |     |
| 45515 | 7 0 54   | 11 2.2    | 16 | 2.7 | 1.3(1.5) |       |       |       |     |    |          | 204  | 8    | 000+00100  |     |
| 45525 | 7 1 4    | 20 39.0   | 17 | 3.2 | 1.5(1.4) |       |       |       |     |    |          | 196  | 12   | 000100700  |     |
| 45525 | 7 1 17   | -5 14.1   | 15 | 3.6 | 1.5(1.4) |       |       |       |     |    |          | 219  | 0    | 000100000  |     |
| 45545 | 7 1 48   | 41 54.9   | 20 | 2.1 | 1.2(1.3) |       |       |       |     |    |          | 175  | 20   | 0001+0700  |     |
| 45555 | 7 1 56   | -16 29.3  | 14 | 4.0 | 1.5(1.4) |       |       |       |     |    |          | 229  | -5   | 001700000  |     |
| 45565 | 7 1 57   | -9 54.9   | 11 | 2.6 | 1.4(1.3) |       |       |       |     |    |          | 223  | -2   | 003+00000  |     |
| 45575 | 7 2 17   | 31 27.4   | 19 | 2.8 | 1.7(1.3) |       |       |       |     |    |          | 186  | 17   | 000170700  |     |
| 45585 | 7 2 31   | -68 6.9   | 21 | 2.7 | 1.9(1.4) |       |       |       |     |    |          | 279  | -24  | 000200000  |     |
| 45595 | 7 2 45   | 9 16.1    | 16 | 3.4 | 1.9(1.4) |       |       |       |     |    |          | 206  | 7    | 000100700  |     |
| 45605 | 7 2 45   | 55 58.4   | 27 | 4.1 | 1.1(1.3) |       |       |       |     |    |          | 161  | 24   | 001+77700  |     |
| 10535 | 7 3 16   | -40 58.7  | 14 | 3.9 | 1.0(1.4) |       |       |       |     |    |          | 252  | -15  | 005000000  |     |
| 45615 | 7 3 32   | 51 28.6   | 25 | 2.7 | 1.6(1.3) |       |       |       |     |    |          | 168  | 23   | 000170700  |     |
| 10565 | 7 3 32   | 12 44.1   | 16 | 2.6 | 1.0(1.4) |       |       |       |     |    |          | 203  | 9    | 000+00100  |     |
| 45625 | 7 4 7    | 33 21.0   | 18 | 3.1 |          |       |       |       |     |    |          | 184  | 18   | 000760700  |     |
| 10585 | 7 4 9    | 28 22.7   | 10 | 1.7 | 1.5(1.3) |       |       |       |     |    |          | 189  | 16   | 000100700  |     |
| 45635 | 7 4 10   | 32 32.6   | 19 | 2.8 | 1.2(1.3) |       |       |       |     |    |          | 135  | 17   | 0002+0700  |     |
| 45645 | 7 4 15   | -24 33.7  | 14 | 3.9 | 1.2(1.3) |       |       |       |     |    |          | 237  | -8   | 003000000  |     |
| 45655 | 7 5 4    | -11 58.8  | 15 | 4.1 | 1.6(1.5) |       |       |       |     |    |          | 225  | -2   | 001700000  |     |
| 45665 | 7 5 39   | 36 58.6   | 19 | 2.5 | 1.6(1.3) |       |       |       |     |    |          | 181  | 19   | 000170700  |     |
| 45675 | 7 5 45   | 10 6.8    | 16 | 3.3 | 1.7(1.4) |       |       |       |     |    |          | 206  | 8    | 000100700  |     |
| 45685 | 7 7 45   | -27 50.2  | 14 | 3.9 | 1.7(1.4) |       |       |       |     |    |          | 240  | -9   | 001000000  |     |
| 45695 | 7 9 5    | 7 40.2    | 16 | 3.4 | 2.1(1.4) |       |       |       |     |    |          | 208  | 8    | 000100000  |     |
| 45705 | 7 9 37   | 34 39.9   | 19 | 3.1 | 1.8(1.4) |       |       |       |     |    |          | 183  | 19   | 000730700  |     |
| 45715 | 7 9 45   | 17 46.8   | 16 | 2.6 | 1.2(1.4) |       |       |       |     |    |          | 199  | 13   | 000+00100  |     |
| 45725 | 7 9 46   | -1 19.7   | 15 | 3.5 | 2.6(1.4) |       |       |       |     |    |          | 217  | 4    | 000100000  |     |
| 45735 | 7 9 53   | -9 17.9   | 15 | 4.1 |          |       |       |       |     |    |          | 224  | 0    | 004700000  |     |
| 45745 | 7 9 55   | 14 42.1   | 17 | 3.4 | 1.7(1.4) |       |       |       |     |    |          | 202  | 11   | 000500700  |     |
| 10305 | 7 11 2   | -6 2.2    | 15 | 3.5 |          |       |       |       |     |    |          | 221  | 2    | 000200000  |     |
| 45755 | 7 11 24  | -22 39.6  | 14 | 3.9 | 1.5(1.4) |       |       |       |     |    |          | 236  | -6   | 001030000  |     |
| 45765 | 7 11 31  | 27 43.6   | 18 | 2.9 | 2.0(1.3) |       |       |       |     |    |          | 190  | 17   | 000170700  |     |
| 10885 | 7 11 40  | 24 58.4   | 12 | 1.8 | 1.5(1.3) |       |       |       |     |    |          | 193  | 16   | 000170100  |     |
| 45775 | 7 11 41  | 60 9.8    | 32 | 2.9 | 1.7(1.3) |       |       |       |     |    |          | 157  | 26   | 005770000  |     |
| 45785 | 7 11 57  | 3 9.9     | 15 | 3.5 | 1.4(1.4) |       |       |       |     |    |          | 213  | 7    | 000100000  |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | V(4)    | M(11) | M(20) | M(27) | IRC | BS | COMMENTS | L II | B II | OBS.     | LOG |
|-------|----------|-----------|----|-----|---------|-------|-------|-------|-----|----|----------|------|------|----------|-----|
| 45795 | 7 11 59  | 95 51.6   | 29 | 2.8 | 1.6(.3) |       |       |       |     |    |          | 181  | 26   | 00:17:00 |     |
| 45805 | 7 12 36  | 9 31.0    | 9  | 2.2 | 1.7(.3) |       |       |       |     |    |          | 224  | 1    | 00:50:00 |     |
| 45815 | 7 12 46  | 39 12.8   | 14 | 1.9 | 1.7(.3) |       |       |       |     |    |          | 179  | 22   | 00:10:00 |     |
| 45825 | 7 13 7   | 8 38.1    | 15 | 3.8 | 1.6(.4) |       |       |       |     |    |          | 222  | 3    | 00:10:00 |     |
| 45835 | 7 13 24  | 78 15.6   | 47 | 2.2 | 1.3(.3) |       |       |       |     |    |          | 139  | 28   | 00:17:00 |     |
| 45845 | 7 18 18  | 3 38.1    | 15 | 3.4 | 1.2(.3) |       |       |       |     |    |          | 213  | 8    | 00:10:00 |     |
| 45855 | 7 18 56  | -17 12.3  | 15 | 4.0 | 1.6(.5) |       |       |       |     |    |          | 231  | -2   | 00:10:00 |     |
| 45865 | 7 18 56  | -10 47.2  | 15 | 3.5 | 1.5(.4) |       |       |       |     |    |          | 226  | 1    | 00:10:00 |     |
| 45875 | 7 18 59  | -11 25.3  | 15 | 3.5 | 1.8(.5) |       |       |       |     |    |          | 226  | 1    | 00:10:00 |     |
| 45885 | 7 16 59  | -28 33.1  | 14 | 3.9 | 1.9(.4) |       |       |       |     |    |          | 240  | -6   | 00:10:00 |     |
| 45895 | 7 17 24  | 93 36.0   | 28 | 4.1 | 1.4(.3) |       |       |       |     |    |          | 154  | 26   | 00:17:00 |     |
| 45905 | 7 18 18  | 38 50.9   | 19 | 2.4 | 1.6(.4) |       |       |       |     |    |          | 182  | 22   | 00:17:00 |     |
| 45915 | 7 18 25  | 38 50.9   | 19 | 3.1 | 1.9(.4) |       |       |       |     |    |          | 183  | 22   | 00:17:00 |     |
| 45925 | 7 19 7   | 20 31.1   | 17 | 3.2 | 1.6(.3) |       |       |       |     |    |          | 196  | 18   | 00:10:00 |     |
| 45935 | 7 19 8   | 11 21.3   | 16 | 4.1 | 1.6(.3) |       |       |       |     |    |          | 227  | 1    | 00:10:00 |     |
| 45945 | 7 19 20  | 26 6.0    | 18 | 3.0 | 2.3(.3) |       |       |       |     |    |          | 192  | 18   | 00:17:00 |     |
| 45955 | 7 19 24  | 24 8.9    | 14 | 3.9 | 1.4(.4) |       |       |       |     |    |          | 238  | -5   | 00:10:00 |     |
| 45965 | 7 19 32  | 43 7.6    | 20 | 2.2 | 1.6(.3) |       |       |       |     |    |          | 175  | 24   | 00:17:00 |     |
| 45975 | 7 19 37  | -14 49.4  | 19 | 4.0 | 1.3(.3) |       |       |       |     |    |          | 230  | -0   | 00:10:00 |     |
| 45985 | 7 20 6   | 69 14.8   | 46 | 3.1 | 1.8(.3) |       |       |       |     |    |          | 146  | 28   | 00:17:00 |     |
| 45995 | 7 20 23  | 38 40.0   | 18 | 2.4 | 1.6(.3) |       |       |       |     |    |          | 182  | 22   | 00:17:00 |     |
| 46005 | 7 20 44  | 40 45.0   | 20 | 2.2 | 1.7(.5) |       |       |       |     |    |          | 176  | 23   | 00:17:00 |     |
| 46015 | 7 20 54  | -29 13.7  | 15 | 3.8 | 1.6(.4) |       |       |       |     |    |          | 243  | -7   | 00:10:00 |     |
| 46025 | 7 21 12  | 37 42.6   | 19 | 2.8 | 1.7(.4) |       |       |       |     |    |          | 181  | 22   | 00:17:00 |     |
| 46035 | 7 21 45  | 35 41.1   | 19 | 2.8 | 1.3(.3) |       |       |       |     |    |          | 183  | 22   | 00:17:00 |     |
| 46045 | 7 23 48  | 12 47.8   | 16 | 3.2 | 1.7(.3) |       |       |       |     |    |          | 205  | 13   | 00:10:00 |     |
| 46055 | 7 24 41  | 75 11.0   | 42 | 1.8 | 1.6(.4) |       |       |       |     |    |          | 140  | 29   | 00:17:00 |     |
| 46065 | 7 25 15  | -26 45.4  | 10 | 2.3 | 1.9(.4) |       |       |       |     |    |          | 241  | -5   | 00:10:00 |     |
| 46075 | 7 25 23  | 68 33.2   | 24 | 1.8 | 2.0(.5) |       |       |       |     |    |          | 147  | 29   | 00:17:00 |     |
| 46085 | 7 25 28  | 40 47.4   | 20 | 2.2 | 2.0(.5) |       |       |       |     |    |          | 178  | 24   | 00:17:00 |     |
| 46095 | 7 26 39  | -1 51.0   | 15 | 3.4 | 2.3(.5) |       |       |       |     |    |          | 219  | 7    | 00:10:00 |     |
| 46105 | 7 28 47  | -12 10.3  | 16 | 4.1 | 1.2(.4) |       |       |       |     |    |          | 226  | 4    | 00:10:00 |     |
| 46115 | 7 28 53  | 4 12.3    | 15 | 3.4 | 1.3(.3) |       |       |       |     |    |          | 221  | 6    | 00:10:00 |     |
| 46125 | 7 28 58  | 7 7.1     | 16 | 3.2 | 1.9(.4) |       |       |       |     |    |          | 208  | 14   | 00:10:00 |     |
| 46135 | 7 27 6   | 7 1.8     | 15 | 3.4 | 1.6(.3) |       |       |       |     |    |          | 224  | 5    | 00:10:00 |     |
| 46145 | 7 27 18  | -17 28.4  | 15 | 4.0 | 1.3(.4) |       |       |       |     |    |          | 233  | 0    | 00:10:00 |     |
| 46155 | 7 27 55  | -8 19.9   | 16 | 4.0 | 1.7(.4) |       |       |       |     |    |          | 228  | 4    | 00:10:00 |     |
| 46165 | 7 28 56  | -10 2.7   | 15 | 3.5 | 1.6(.5) |       |       |       |     |    |          | 227  | 4    | 00:10:00 |     |
| 46175 | 7 28 56  | 40 47.3   | 20 | 2.2 | 1.8(.3) |       |       |       |     |    |          | 178  | 25   | 00:17:00 |     |
| 46185 | 7 30 59  | 18 31.3   | 16 | 3.2 | 1.8(.3) |       |       |       |     |    |          | 201  | 17   | 00:17:00 |     |
| 46195 | 7 31 5   | 67 33.5   | 29 | 2.1 | 1.8(.4) |       |       |       |     |    |          | 148  | 29   | 00:17:00 |     |
| 46205 | 7 31 26  | 51 19.5   | 14 | 3.1 | 1.3(.3) |       |       |       |     |    |          | 227  | 5    | 00:10:00 |     |
| 46215 | 7 31 34  | -9 58.4   | 16 | 4.0 | 1.3(.3) |       |       |       |     |    |          | 227  | 5    | 00:10:00 |     |
| 46225 | 7 31 49  | 28 50.2   | 18 | 2.5 | 2.0(.4) |       |       |       |     |    |          | 215  | 11   | 00:10:00 |     |
| 46235 | 7 31 50  | 2 56.2    | 15 | 3.3 | 1.5(.3) |       |       |       |     |    |          | 213  | 12   | 00:10:00 |     |
| 46245 | 7 31 54  | 5 47.6    | 16 | 3.4 | 1.5(.3) |       |       |       |     |    |          | 235  | 1    | 00:10:00 |     |
| 46255 | 7 33 6   | -18 37.8  | 15 | 4.0 | 1.5(.5) |       |       |       |     |    |          | 236  | 0    | 00:10:00 |     |
| 46265 | 7 33 43  | -18 43.8  | 15 | 3.9 | 1.9(.5) |       |       |       |     |    |          | 225  | 6    | 00:10:00 |     |
| 46275 | 7 33 45  | -8 10.5   | 16 | 4.0 | 1.5(.5) |       |       |       |     |    |          | 179  | 25   | 00:17:00 |     |
| 46285 | 7 33 50  | 40 8.7    | 20 | 2.3 | 1.5(.5) |       |       |       |     |    |          |      |      |          |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA     | ED  | M(4)    | M(11) | M(20)    | M(27)    | 19C     | BS   | COMMENTS          | L 11 | B 11 | OBS. LOG  |
|-------|----------|-----------|--------|-----|---------|-------|----------|----------|---------|------|-------------------|------|------|-----------|
|       |          |           |        |     |         |       |          |          |         |      |                   |      |      |           |
| 11535 | 7 34 51  | 29 17.7   | 18 2.9 | 3.9 | 1.6(.3) |       |          |          |         |      |                   | 190  | 22   | 000170000 |
| 11545 | 7 34 59  | 8 44.5    | 16 3.3 | 3.9 | 2.0(.3) |       |          |          |         |      |                   | 210  | 14   | 000100000 |
| 11555 | 7 35 27  | 13 46.2   | 16 3.2 | 3.2 | 1.8(.4) |       | -2.8(.5) |          |         |      |                   | 206  | 16   | 000500000 |
| 11575 | 7 35 30  | 13 12.0   | 16 3.4 | 3.4 | 2.0(.3) |       |          |          |         |      |                   | 206  | 16   | 000100000 |
| 11585 | 7 35 58  | 7 32.8    | 15 3.4 | 3.4 | 1.3(.3) |       |          |          |         |      |                   | 235  | 7    | 000100000 |
| 48175 | 7 36 32  | 36 52.7   | 19 2.5 | 2.5 | 1.5(.4) |       |          |          | 40182   |      |                   | 183  | 25   | 000170700 |
| 48185 | 7 36 41  | 43 33.5   | 22 3.0 | 3.0 | 1.7(.4) |       | -1.2(.4) | -3.2(.4) |         |      | EO                | 176  | 27   | 000707000 |
| 48195 | 7 36 54  | 37 13.9   | 29 4.0 | 4.0 | 1.7(.5) |       |          |          | 60183   | 3928 | 23 LYN<br>IC 2203 | 160  | 29   | 001707000 |
| 48205 | 7 37 26  | 34 21.3   | 18 2.4 | 2.4 | 1.4(.4) |       |          |          | -30087  |      |                   | 185  | 24   | 000701000 |
| 48215 | 7 37 35  | -27 38.1  | 16 3.9 | 3.9 | 1.1(.4) |       |          |          |         |      |                   | 243  | -3   | 001000000 |
| 48225 | 7 38 4   | -15 8.6   | 15 3.9 | 3.9 | 1.0(.3) |       |          |          | -20138  | 2958 | GC 10328          | 232  | 4    | 001000000 |
| 11635 | 7 38 36  | -28 23.3  | 15 3.9 | 3.9 | 1.4(.3) |       | -1.7(.4) |          |         |      |                   | 244  | -3   | 002000000 |
| 48235 | 7 38 42  | -9 24.3   | 16 3.9 | 3.9 | 1.4(.3) |       |          |          | -10174  | 2970 | ALF MON           | 227  | 7    | 001000000 |
| 48245 | 7 38 59  | 53 0.0    | 28 2.1 | 2.1 | 1.3(.3) |       |          |          |         |      |                   | 185  | 29   | 001707000 |
| 11705 | 7 39 16  | 8 34.9    | 18 3.3 | 3.3 | 1.6(.3) |       |          |          |         |      |                   | 211  | 15   | 000100000 |
| 48255 | 7 39 25  | -22 16.4  | 15 3.6 | 3.6 | 1.2(.3) |       |          |          | -20141  | 2976 | GC 10352          | 238  | 0    | 001000000 |
| 11725 | 7 39 35  | 25 57.8   | 18 2.8 | 2.8 | 1.5(.3) |       |          |          |         |      |                   | 184  | 22   | 000170000 |
| 48265 | 7 39 56  | 23 34.9   | 17 2.9 | 2.9 | 1.7(.4) |       |          |          |         |      | S GEM             | 197  | 21   | 000170000 |
| 48275 | 7 40 21  | 44 21.3   | 22 2.9 | 2.9 | 1.7(.4) |       | -1.1(.4) | -2.8(.4) | -30081E |      |                   | 175  | 28   | 000760700 |
| 48285 | 7 41 25  | -33 13.9  | 15 3.8 | 3.8 | 1.8(.5) |       |          |          |         |      |                   | 248  | -5   | 001000000 |
| 48295 | 7 41 37  | -42 13.8  | 20 3.2 | 3.2 | 2.0(.4) |       |          |          |         |      |                   | 177  | 27   | 000170700 |
| 11805 | 7 41 43  | -19 28.4  | 18 3.8 | 3.8 | 1.4(.3) |       |          |          | 40185   |      | DO 31839          | 236  | 2    | 001000000 |
| 11825 | 7 41 59  | 26 45.1   | 17 3.1 | 3.1 | 1.4(.3) |       | -3.1(.4) |          |         |      |                   | 194  | 23   | 000760000 |
| 48305 | 7 42 18  | 51 3.2    | 26 3.6 | 3.6 | 2.1(.4) |       |          |          | 50185   |      | DO 31838          | 167  | 29   | 001707000 |
| 11855 | 7 43 2   | 3 42.9    | 15 3.2 | 3.2 | 1.3(.3) |       |          |          |         |      |                   | 216  | 14   | 000100000 |
| 48315 | 7 43 23  | -6 36.4   | 16 3.9 | 3.9 | 1.3(.3) |       |          |          | -10176  | 3014 | GC 10465          | 225  | 9    | 001000000 |
| 48325 | 7 44 12  | -21 24.4  | 15 3.8 | 3.8 | 1.8(.5) |       |          |          | -20142  |      |                   | 238  | 2    | 001800000 |
| 48335 | 7 44 47  | -32 13.1  | 15 3.8 | 3.8 | 1.0(.3) |       | -1.4(.4) |          | -30100  |      |                   | 246  | -4   | 003000000 |
| 48345 | 7 45 11  | 24 9.2    | 10 2.1 | 2.1 | 1.6(.3) |       |          |          |         |      | SVS 100897        | 197  | 23   | 000170000 |
| 48355 | 7 45 13  | -19 18.9  | 15 3.8 | 3.8 | 1.8(.4) |       |          |          | -20143  |      |                   | 237  | 3    | 001700000 |
| 48365 | 7 45 18  | -15 49.4  | 16 3.9 | 3.9 | 1.7(.4) |       |          |          | -20144  | 3027 | GC 10514          | 234  | 5    | 001000000 |
| 11935 | 7 46 14  | -15 49.0  | 16 3.9 | 3.9 | 1.3(.3) |       | -3.0(.4) |          |         |      |                   | 234  | 5    | 004000000 |
| 11945 | 7 46 26  | 10 53.9   | 18 3.2 | 3.2 | 1.3(.3) |       |          |          |         |      |                   | 210  | 18   | 000170000 |
| 48375 | 7 46 29  | 13 27.6   | 16 3.2 | 3.2 | 2.2(.4) |       |          |          | 10177   | 3030 | GC 10539          | 207  | 19   | 000170000 |
| 48385 | 7 46 49  | -35 33.9  | 16 3.8 | 3.8 | 1.6(.4) |       |          |          | -30087E |      |                   | 251  | -5   | 001000000 |
| 48395 | 7 47 24  | -13 58.2  | 16 3.9 | 3.9 | 1.5(.5) |       |          |          | -10178  |      | GC 10566          | 232  | 6    | 001000000 |
| 48405 | 7 47 52  | -33 13.3  | 16 3.8 | 3.8 | 1.9(.3) |       |          |          | -30088E | 3082 | GC 10574          | 249  | -4   | 001000000 |
| 48415 | 7 48 9   | -27 43.7  | 16 3.8 | 3.8 | 1.4(.4) |       | -1.7(.4) | -3.6(.5) | -30101  |      |                   | 244  | -1   | 001000000 |
| 11985 | 7 48 43  | -34 48.7  | 10 2.2 | 2.2 | 1.3(.4) |       |          |          |         |      |                   | 250  | -4   | 006000000 |
| 48425 | 7 48 49  | -35 8.6   | 16 3.8 | 3.8 | 1.3(.4) |       |          |          | -30090E |      |                   | 251  | -4   | 001000000 |
| 12015 | 7 50 21  | 60 4.8    | 31 3.8 | 3.8 | 1.3(.3) |       | -2.9(.4) |          |         |      |                   | 157  | 31   | 004370700 |
| 48435 | 7 50 40  | -7 52.5   | 16 3.8 | 3.8 | 1.3(.3) |       |          |          | -10182  |      |                   | 227  | 10   | 003000000 |
| 12025 | 7 50 58  | 47 40.8   | 16 2.1 | 2.1 | 1.7(.4) |       |          |          | 50186   | 3086 | 26 LYN<br>VA CM1  | 172  | 30   | 001170700 |
| 48445 | 7 51 30  | 1 53.2    | 15 3.3 | 3.3 | 2.0(.4) |       |          |          |         |      |                   | 219  | 15   | 001000000 |
| 12035 | 7 51 34  | -28 49.4  | 15 3.7 | 3.7 | 1.3(.3) |       |          |          |         |      |                   | 245  | -1   | 001000000 |
| 12065 | 7 52 18  | 30 37.7   | 18 2.7 | 2.7 | 1.4(.3) |       |          |          | -30092E | 3082 | GC 10709          | 190  | 26   | 000170000 |
| 48455 | 7 52 40  | -34 43.7  | 16 3.8 | 3.8 | 1.7(.3) |       | -2.1(.4) | -2.9(.4) |         |      |                   | 251  | -4   | 002000000 |
| 12075 | 7 52 44  | -6 16.6   | 16 3.7 | 3.7 | 1.7(.3) |       |          | -2.9(.4) |         |      |                   | 226  | 11   | 005000000 |
| 12085 | 7 52 56  | 20 8.3    | 17 3.0 | 3.0 |         |       | -2.1(.3) | -3.1(.4) |         |      |                   | 201  | 23   | 000470000 |
| 12105 | 7 53 17  | 8 59.3    | 16 3.1 | 3.1 |         |       |          |          |         |      |                   | 212  | 18   | 000670000 |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA  | ED  | M(4)     | M(11)    | M(20) | M(27) | IRC        | BS   | COMMENTS | L   | I  | B         | I | OBS. | LOC. |
|-------|----------|-----------|-----|-----|----------|----------|-------|-------|------------|------|----------|-----|----|-----------|---|------|------|
|       |          |           |     |     |          |          |       |       |            |      |          |     |    |           |   |      |      |
| 12115 | 7 53 29  | 16 54.6   | 16  | 3.1 | 1.2(.3)  |          |       |       | -30105     |      | MU PUP   | 205 | 22 | 00170000  |   |      |      |
| 46465 | 7 53 30  | -20 29.6  | 15  | 3.7 | 1.6(.3)  |          |       |       |            |      |          | 245 | -0 | 00500000  |   |      |      |
| 12125 | 7 53 46  | 11 2.1    | 15  | 3.3 |          | -1.2(.4) |       |       |            |      |          | 210 | 19 | 00070000  |   |      |      |
| 46175 | 7 53 48  | 68 2.2    | 41  | 3.0 | 1.1(.4)  |          |       |       | 70079      | 3073 | SVS 6650 | 148 | 31 | 00771700  |   |      |      |
| 46195 | 7 53 56  | 74 2.3    | 53  | 2.0 | 1.1(.3)  |          |       |       | 70080      |      | GC 10745 | 141 | 31 | 00771700  |   |      |      |
| 46495 | 7 53 57  | 11 13.3   | 15  | 3.3 | 1.8(.3)  |          |       |       | 10179      |      | DO 2361  | 210 | 19 | 000710000 |   |      |      |
| 46505 | 7 54 3   | 21 26.6   | 16  | 3.2 |          |          |       |       | 20192      |      | XV GEM   | 200 | 24 | 007740000 |   |      |      |
| 46515 | 7 54 26  | 15 51.9   | 16  | 3.1 | 2.0(.4)  |          |       |       | 20191      | 3095 | 1 CNC    | 206 | 21 | 00070000  |   |      |      |
| 46525 | 7 54 39  | -22 43.2  | 15  | 3.8 | 1.4(.4)  |          |       |       | -20150     | 3102 | 11 PUP   | 241 | 3  | 00100000  |   |      |      |
| 46535 | 7 55 19  | -15 5.0   | 15  | 3.7 | 1.5(.3)  |          |       |       | -20151     |      |          | 234 | 7  | 00100000  |   |      |      |
| 46545 | 7 55 34  | 16 41.6   | 16  | 3.1 | 1.6(.4)  |          |       |       | 20193      |      | GC 10773 | 205 | 22 | 00170000  |   |      |      |
| 12145 | 7 56 8   | -10 50.2  | 17  | 3.7 | 1.2(.3)  |          |       |       |            |      |          | 222 | 14 | 00570000  |   |      |      |
| 46555 | 7 56 42  | -32 24.4  | 16  | 3.7 | 1.2(.4)  |          |       |       | -30108     |      |          | 249 | -2 | 00107000  |   |      |      |
| 46565 | 7 58 19  | -32 35.8  | 10  | 2.2 | 1.1(.3)  | -1.3(.5) |       |       | -30109     |      |          | 249 | -1 | 00300000  |   |      |      |
| 46575 | 7 59 36  | -29 56.0  | 16  | 3.7 |          | -2.2(.4) |       |       | -30110     |      |          | 247 | 0  | 002010000 |   |      |      |
| 46585 | 7 59 7   | -31 33.6  | 10  | 2.2 |          | -1.6(.4) |       |       | -30111     |      |          | 249 | -1 | 002010000 |   |      |      |
| 46595 | 8 0 6    | -26 3.7   | 16  | 3.8 | 1.7(.4)  |          |       |       | -30112     |      |          | 244 | -2 | 00107000  |   |      |      |
| 12195 | 8 0 13   | 47 8.1    | 17  | 3.1 | 1.6(.5)  | -1.7(.4) |       |       |            |      |          | 172 | 31 | 00270000  |   |      |      |
| 46705 | 8 0 40   | 27 57.5   | 17  | 3.1 | 1.6(.5)  |          |       |       | 30198      | 3149 | CHI GEM  | 194 | 27 | 00370000  |   |      |      |
| 46715 | 8 0 45   | -12 6.8   | 16  | 3.8 | 1.7(.4)  |          |       |       | -10106     |      |          | 232 | 10 | 00100000  |   |      |      |
| 12225 | 8 1 22   | 62 16.7   | 23  | 1.5 |          |          |       |       |            |      |          | 155 | 32 | 007740000 |   |      |      |
| 12255 | 8 2 37   | 34 16.6   | 19  | 3.1 |          |          |       |       |            |      |          | 187 | 28 | 007740000 |   |      |      |
| 46625 | 8 2 43   | -29 52.1  | 16  | 3.7 | 1.8(.5)  | -3.2(.4) |       |       | -30118     |      | GC 10968 | 248 | 1  | 00100000  |   |      |      |
| 46635 | 8 3 4    | -16 56.4  | 15  | 3.7 | 2.0(.4)  |          |       |       | -30155     |      |          | 237 | 8  | 00100000  |   |      |      |
| 12205 | 8 3 31   | 60 52.0   | 22  | 1.5 | 1.6(.4)  |          |       |       | 60185      |      | DO 32087 | 156 | 33 | 007710700 |   |      |      |
| 12305 | 8 3 33   | -0 32.1   | 17  | 3.7 | 1.7(.3)  |          |       |       |            |      |          | 222 | 16 | 00100000  |   |      |      |
| 46645 | 8 3 13   | 6 41.6    | 17  | 3.4 |          |          |       |       |            |      |          | 218 | 20 | 007740000 |   |      |      |
| 46655 | 8 3 14   | -3 17.8   | 16  | 3.6 | 2.0(.4)  | -3.1(.4) |       |       | 169        |      | DO 2421  | 225 | 15 | 00500000  |   |      |      |
| 46665 | 8 3 17   | -22 40.4  | 16  | 3.7 | 1.5(.4)  | -3.2(.4) |       |       | -20156     |      | MU PUP   | 242 | 5  | 00100000  |   |      |      |
| 46675 | 8 3 27   | 47 26.2   | 22  | 2.0 | 1.5(.3)  |          |       |       |            |      |          | 172 | 32 | 00170000  |   |      |      |
| 46685 | 8 6 46   | 95 40.8   | 26  | 1.7 | 1.4(.3)  |          |       |       |            |      |          | 182 | 33 | 007740000 |   |      |      |
| 46695 | 8 7 10   | 17 12.2   | 16  | 3.2 | 1.3(.4)  | -3.5(.4) |       |       |            |      |          | 208 | 25 | 000710000 |   |      |      |
| 12345 | 8 8 51   | 3 38.3    | 15  | 3.2 | 1.1(.3)  |          |       |       | 20186      |      | DO 13429 | 219 | 19 | 007740000 |   |      |      |
| 46705 | 8 9 11   | 42 42.7   | 23  | 3.3 | 1.1(.3)  |          |       |       |            |      |          | 177 | 33 | 007740000 |   |      |      |
| 46715 | 8 9 32   | 44 21.9   | 19  | 3.2 | 1.6(.3)  | -2.2(.4) |       |       |            |      |          | 176 | 33 | 007740000 |   |      |      |
| 46725 | 8 9 35   | 19 11.5   | 17  | 3.0 | 1.6(.3)  | -2.4(.5) |       |       |            |      |          | 204 | 26 | 007740000 |   |      |      |
| 12355 | 8 9 51   | 2 2.5     | 17  | 3.6 | 1.6(.4)  |          |       |       |            |      |          | 221 | 19 | 00300000  |   |      |      |
| 12375 | 8 10 34  | -32 40.0  | 16  | 3.7 | 1.3(.3)  | -0.6(.4) |       |       |            |      |          | 251 | 1  | 00100000  |   |      |      |
| 46735 | 8 10 50  | 45 56.8   | 24  | 3.4 |          |          |       |       |            |      |          | 174 | 33 | 007740000 |   |      |      |
| 12395 | 8 11 32  | -28 5.8   | 16  | 3.6 |          | -2.7(.5) |       |       | IC 2233.60 |      |          | 247 | 3  | 00400000  |   |      |      |
| 46745 | 8 11 40  | 40 32.1   | 20  | 2.4 | 1.9(.3)  | -4.0(.4) |       |       |            |      |          | 180 | 32 | 007740000 |   |      |      |
| 46755 | 8 11 48  | 37 49.6   | 20  | 3.0 | 1.6(.5)  |          |       |       | 40183      |      | RT LYN   | 184 | 32 | 007740000 |   |      |      |
| 46765 | 8 11 58  | 8 40.7    | 17  | 3.3 | 1.6(.4)  | -0.6(.4) |       |       |            |      |          | 215 | 22 | 00370000  |   |      |      |
| 46775 | 8 12 24  | 4 45.3    | 15  | 3.2 | 1.6(.3)  |          |       |       |            |      |          | 218 | 21 | 007740000 |   |      |      |
| 46785 | 8 12 26  | 17 17.4   | 16  | 2.9 | 1.6(.3)  |          |       |       |            |      |          | 206 | 26 | 007740000 |   |      |      |
| 46795 | 8 13 20  | 23 35.4   | 17  | 3.2 |          |          |       |       | 10186      | 3249 | IC 2235  | 200 | 28 | 007740000 |   |      |      |
| 46805 | 8 13 37  | 9 21.6    | 16  | 3.1 | -0.6(.3) | -3.0(.4) |       |       |            |      |          | 214 | 23 | 007740000 |   |      |      |
| 46815 | 8 15 14  | 39 37.2   | 20  | 2.4 | 1.6(.3)  | -0.6(.4) |       |       |            |      |          | 182 | 33 | 007740000 |   |      |      |
| 12425 | 8 15 22  | 85 16.8   | 101 | 2.0 | 2.0(.4)  | -0.6(.4) |       |       |            |      |          | 126 | 29 | 007740000 |   |      |      |
| 46825 | 8 16 47  | 23 6.8    | 17  | 2.9 | 1.5(.3)  |          |       |       |            |      |          | 200 | 29 | 007740000 |   |      |      |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)     | M(11) | M(20)     | M(27) | IRC       | BS   | COMMENTS   | L II | B II | OBS.      | LOG |
|-------|----------|-----------|----|-----|----------|-------|-----------|-------|-----------|------|------------|------|------|-----------|-----|
|       |          |           |    |     |          |       |           |       |           |      |            |      |      |           |     |
| 46832 | 8 16 34  | 39 26.3   | 21 | 3.0 |          |       | -3.1(-.4) |       |           |      | T LYN      | 181  | 33   | 004720000 |     |
| 12465 | 8 19 35  | 33 40.0   | 13 | 1.8 | 1.4(-.4) |       |           |       |           |      | SLS 1289   | 181  | 33   | 001120000 |     |
| 46845 | 8 20 8   | -25 30.8  | 16 | 3.6 | 1.1(-.3) |       |           |       | -20124    |      | IC 2340    | 246  | 6    | 001000000 |     |
| 46855 | 8 20 35  | 18 55.8   | 16 | 3.2 |          |       | -3.0(-.4) |       |           |      | IC 2340    | 205  | 28   | 002400000 |     |
| 46875 | 8 20 44  | 19 4.2    | 16 | 3.2 | 1.1(-.4) |       |           |       | -10193    | 3288 | IC 2343    | 231  | 18   | 001000000 |     |
| 12465 | 8 20 58  | 1 33.1    | 15 | 3.4 | 2.1(-.3) |       |           |       |           |      |            | 205  | 29   | 007100000 |     |
| 46885 | 8 21 33  | 42 11.8   | 22 | 3.1 | 1.5(-.3) |       |           |       |           |      | DO 32263   | 223  | 21   | 007010000 |     |
| 46895 | 8 22 3   | 26 4.7    | 10 | 1.8 | 1.4(-.4) |       |           |       | 40196     | 3287 | SVS 100954 | 179  | 35   | 001+20000 |     |
| 46905 | 8 22 47  | -23 52.1  | 16 | 3.5 | 1.3(-.4) |       |           |       | -20166    | 3315 | GC 11491   | 195  | 32   | 00+220000 |     |
| 46915 | 8 22 51  | 10 41.3   | 16 | 2.9 | 1.4(-.3) |       |           |       |           |      | IC 2363    | 246  | 8    | 001000000 |     |
| 46925 | 8 22 52  | 2 14.0    | 15 | 3.4 | 1.7(-.4) |       |           |       |           |      | GC 11493   | 225  | 29   | 007100000 |     |
| 12425 | 8 23 13  | 44 57.1   | 16 | 2.0 | 1.8(-.3) |       |           |       | 174       | 3305 |            | 222  | 22   | 007010000 |     |
| 46935 | 8 23 57  | 59 14.8   | 28 | 1.6 | 1.8(-.3) |       |           |       |           |      |            | 176  | 35   | 002220000 |     |
| 12565 | 8 24 34  | 13 8.9    | 11 | 2.2 |          |       | -3.7(-.4) |       |           |      |            | 158  | 35   | 007120000 |     |
| 12575 | 8 24 50  | -27 35.9  | 10 | 2.2 | 2.0(-.4) |       |           |       |           |      |            | 212  | 27   | 007400000 |     |
| 46945 | 8 26 31  | 21 52.4   | 16 | 2.5 | 1.1(-.3) |       |           |       |           |      |            | 248  | 6    | 002000000 |     |
| 46955 | 8 26 51  | 44 18.9   | 23 | 3.1 | 1.6(-.3) |       |           |       |           |      |            | 203  | 31   | 001+20000 |     |
| 12595 | 8 27 3   | 2 51.6    | 15 | 3.4 | 1.6(-.3) |       |           |       |           |      |            | 176  | 36   | 001200000 |     |
| 46965 | 8 28 1   | 43 49.5   | 21 | 2.3 | 1.6(-.3) |       |           |       | -3.4(-.4) |      |            | 222  | 23   | 00+040000 |     |
| 46975 | 8 28 8   | 67 11.6   | 28 | 1.5 | 1.3(-.4) |       |           |       |           |      |            | 177  | 36   | 007120000 |     |
| 12645 | 8 28 49  | 24 10.1   | 18 | 2.3 |          |       | -7.1(-.4) |       |           |      | S/S 100962 | 148  | 35   | 002220100 |     |
| 46985 | 8 30 25  | -67 37.2  | 32 | 3.9 | 1.7(-.5) |       |           |       | -4.0(-.5) |      | IC 0509    | 200  | 32   | 002220000 |     |
| 12695 | 8 31 22  | -9 48.8   | 16 | 3.4 | 1.7(-.5) |       |           |       |           |      |            | 282  | -16  | 000000000 |     |
| 12695 | 8 31 30  | 4 7.4     | 16 | 3.2 | 1.0(-.3) |       |           |       | -10197    |      |            | 234  | 17   | 001000000 |     |
| 47005 | 8 31 54  | 38 54.5   | 20 | 2.5 | 1.8(-.3) |       |           |       |           |      |            | 222  | 25   | 0010+0000 |     |
| 47015 | 8 31 58  | 5 41.4    | 15 | 3.4 | 1.2(-.5) |       |           |       |           |      |            | 183  | 36   | 007120000 |     |
| 47025 | 8 32 1   | 29 57.1   | 18 | 2.7 | 1.6(-.3) |       |           |       | 10191     |      | DO 2545    | 220  | 25   | 00+010000 |     |
| 47035 | 8 32 33  | 57 42.5   | 28 | 1.8 | 1.5(-.3) |       |           |       |           |      |            | 184  | 34   | 007120000 |     |
| 12705 | 8 33 1   | 9 44.7    | 15 | 3.4 | 1.5(-.3) |       |           |       |           |      |            | 180  | 37   | 007120000 |     |
| 12725 | 8 34 39  | 19 49.5   | 9  | 2.0 | 1.4(-.3) |       |           |       | -1.1(-.4) |      |            | 216  | 27   | 007020000 |     |
| 12775 | 8 36 19  | 64 31.9   | 25 | 1.9 | 1.2(-.3) |       |           |       |           |      |            | 206  | 32   | 005720000 |     |
| 47045 | 8 36 36  | -19 35.2  | 16 | 3.4 | 1.6(-.4) |       |           |       | -2.3(-.6) |      | MGC 2625   | 151  | 36   | 001120000 |     |
| 12795 | 8 37 7   | -23 55.6  | 16 | 3.5 | 1.4(-.3) |       |           |       |           |      | GC 11865   | 243  | 13   | 001000000 |     |
| 47055 | 8 37 35  | -12 18.7  | 16 | 3.4 | 1.5(-.4) |       |           |       | -20172    | 3425 |            | 247  | 10   | 001000000 |     |
| 47065 | 8 37 36  | 46 2.8    | 12 | 2.2 | 1.5(-.4) |       |           |       | -10200    | 3431 | 6 HVA      | 237  | 17   | 005000000 |     |
| 47075 | 8 37 36  | 16 26.2   | 16 | 2.6 | 1.4(-.3) |       |           |       | -10200    | 3432 | 34 LYN     | 174  | 38   | 007220000 |     |
| 47085 | 8 39 28  | -2 55.6   | 14 | 3.5 | 1.1(-.3) |       |           |       |           |      |            | 210  | 31   | 001+20000 |     |
| 47095 | 8 39 45  | -2 51.7   | 16 | 3.2 | 1.5(-.3) |       |           |       | 178       |      | DO 2587    | 229  | 23   | 00+010000 |     |
| 47105 | 8 41 51  | 59 35.5   | 29 | 1.8 | 1.6(-.3) |       |           |       | 178       |      | DO 2587    | 229  | 23   | 0050+0000 |     |
| 47115 | 8 42 26  | 72 34.1   | 51 | 3.4 | 1.2(-.3) |       |           |       | -2.8(-.4) |      |            | 157  | 38   | 007120000 |     |
| 12865 | 8 43 29  | 79 9.9    | 37 | 1.8 | 1.2(-.3) |       |           |       |           |      |            | 142  | 34   | 072222000 |     |
| 47125 | 8 43 53  | -13 20.7  | 16 | 3.4 | 1.5(-.3) |       |           |       |           |      | RS CAM     | 134  | 32   | 021+27100 |     |
| 12905 | 8 44 27  | 1 18.1    | 15 | 3.5 | 1.8(-.4) |       |           |       | -10207    | 3494 | 12 HVA     | 239  | 18   | 005000000 |     |
| 47145 | 8 44 48  | 49 15.1   | 24 | 2.5 | 1.4(-.3) |       |           |       | -10206    |      | GC 12087   | 237  | 20   | 001000000 |     |
| 12945 | 8 45 40  | 73 16.5   | 30 | 1.5 | 1.4(-.3) |       |           |       |           |      |            | 226  | 28   | 007020000 |     |
| 47155 | 8 47 45  | 44 22.7   | 22 | 2.5 | 1.5(-.3) |       |           |       |           |      |            | 170  | 39   | 007220000 |     |
| 47165 | 8 48 23  | 63 54.2   | 36 | 3.2 | 1.4(-.3) |       |           |       | -3.4(-.8) |      |            | 141  | 34   | 07212+600 |     |
| 47175 | 8 49 35  | -3 14.1   | 14 | 3.5 | 1.4(-.3) |       |           |       | -2.8(-.4) |      |            | 177  | 40   | 007120000 |     |
|       |          |           |    |     |          |       |           |       |           |      | DO 2638    | 152  | 37   | 004720000 |     |
|       |          |           |    |     |          |       |           |       | 180       |      |            | 231  | 25   | 007010000 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)     | M(11) | M(20)    | M(27) | IRC    | BS   | COMMENTS   | L 11 | B 11 | OBS.      | LOG |
|-------|----------|-----------|----|-----|----------|-------|----------|-------|--------|------|------------|------|------|-----------|-----|
|       | H M S    |           |    |     |          |       |          |       |        |      |            |      |      |           |     |
| 12975 | 8 51 21  | -12 51.5  | 15 | 3.4 |          |       | -3.2(.4) |       |        |      |            | 240  | 20   | 004000000 |     |
| 47185 | 8 52 41  | 33 5      | 17 | 2.3 |          |       | -3.0(.4) |       |        |      |            | 204  | 37   | 004740000 |     |
| 47195 | 8 54 14  | 41 33.2   | 21 | 2.5 | 1.9(.4)  |       |          |       | 40198  |      |            | 180  | 41   | 007100000 |     |
| 47205 | 8 54 34  | 11 4.4    | 16 | 3.5 | 1.5(.4)  |       |          |       | 10198  |      | EO 2681    | 217  | 33   | 007010000 |     |
| 47215 | 8 55 37  | 29 8.2    | 17 | 2.0 |          |       | -3.4(.4) |       |        |      |            | 196  | 39   | 004770000 |     |
| 47225 | 8 57 10  | -13 38.5  | 15 | 3.2 |          |       | -3.7(.4) |       |        |      |            | 241  | 20   | 003000000 |     |
| 47235 | 8 57 18  | 37 49.1   | 14 | 1.9 | 1.6(.3)  |       | -2.3(.5) |       |        |      | EO         | 185  | 41   | 004100000 |     |
| 47245 | 8 57 26  | 41 58.9   | 21 | 2.5 | 1.8(.4)  |       |          |       | 40199  | 3560 | DC 13749   | 180  | 41   | 007100000 |     |
| 13055 | 8 59 1   | 4 35.3    | 16 | 2.9 | 1.5(.3)  |       |          |       | 40200  | 3578 | GC 12434   | 225  | 31   | 001070000 |     |
| 13065 | 8 0 8    | -20 50.6  | 16 | 3.3 | 1.4(.3)  |       | -3.8(.4) |       |        |      |            | 248  | 17   | 005000000 |     |
| 47255 | 9 1 52   | 52 50.8   | 25 | 2.3 |          |       | -3.1(.4) |       |        |      |            | 165  | 41   | 007400000 |     |
| 13155 | 9 2 30   | -5 56.2   | 16 | 3.2 | 1.3(.3)  |       |          |       |        |      |            | 235  | 26   | 001070000 |     |
| 13165 | 9 2 31   | -7 6.2    | 16 | 3.2 | 1.3(.3)  |       |          |       |        |      |            | 237  | 25   | 001070000 |     |
| 47265 | 9 3 21   | 5 12.8    | 11 | 2.3 | 1.3(.4)  |       | -2.9(.5) |       | 10201  | 3613 | OME MYA    | 225  | 32   | 004070000 |     |
| 47275 | 9 3 52   | 37 44.8   | 17 | 2.1 | 1.5(.3)  |       | -3.4(.4) |       |        |      | IC 2434    | 199  | 41   | 001700000 |     |
| 47285 | 9 4 26   | 37 22.9   | 20 | 2.6 |          |       | -1.6(.4) |       |        |      |            | 186  | 42   | 007400000 |     |
| 13185 | 9 4 35   | -6 36.6   | 16 | 3.2 | 1.3(.3)  |       | -3.3(.4) |       |        |      |            | 238  | 25   | 002000000 |     |
| 47295 | 9 4 37   | 32 54.5   | 17 | 1.9 | 1.3(.3)  |       | -3.3(.4) |       |        |      |            | 192  | 42   | 001700000 |     |
| 47305 | 9 5 18   | -9 19.0   | 11 | 2.4 | 1.3(.3)  |       |          |       |        |      |            | 239  | 25   | 003070000 |     |
| 47315 | 9 6 24   | 59 8.0    | 31 | 2.6 | 1.3(.3)  |       |          |       |        |      |            | 157  | 41   | 001700000 |     |
| 13225 | 9 6 37   | 3 34.2    | 15 | 3.5 |          |       | -1.7(.4) |       |        |      |            | 227  | 32   | 004020000 |     |
| 47325 | 9 7 42   | 58 14.0   | 29 | 2.2 | 1.2(.3)  |       | -2.4(.4) |       |        |      |            | 158  | 41   | 004100000 |     |
| 47335 | 9 8 8    | -62 51.0  | 29 | 3.9 | 1.5(.3)  |       |          |       |        |      |            | 281  | -10  | 000000027 |     |
| 13295 | 9 8 36   | 19 11.2   | 16 | 2.3 |          |       | -3.3(.5) |       |        |      | DO 13439   | 210  | 39   | 001070000 |     |
| 47345 | 9 8 57   | 72 35.2   | 56 | 3.1 |          |       | -3.3(.5) |       |        |      | IC 2438.60 | 140  | 36   | 074770000 |     |
| 13315 | 9 11 46  | 0 48.9    | 11 | 2.3 |          |       | -8(.4)   |       |        |      |            | 230  | 32   | 006020000 |     |
| 13318 | 9 11 46  | 0 48.9    | 11 | 2.3 |          |       | -7(.4)   |       |        |      |            | 221  | 36   | 007020000 |     |
| 47355 | 9 12 27  | 23 40.2   | 17 | 2.1 | 1.1(.3)  |       | -3.0(.4) |       |        |      | IC 2481    | 205  | 41   | 004070000 |     |
| 47365 | 9 12 43  | 48 42.1   | 23 | 2.4 | 1.0(.4)  |       |          |       | -20186 |      |            | 171  | 44   | 001700000 |     |
| 47375 | 9 13 12  | -15 28.1  | 16 | 3.2 |          |       | -2.6(.4) |       |        |      |            | 246  | 22   | 001000000 |     |
| 13375 | 9 14 10  | 37 38.0   | 14 | 1.8 |          |       |          |       |        |      |            | 189  | 44   | 004740000 |     |
| 47385 | 9 15 23  | 47 28.3   | 22 | 2.5 | 1.6(.3)  |       |          |       |        |      |            | 172  | 44   | 007100000 |     |
| 13385 | 9 15 47  | 5 57.1    | 16 | 2.8 | 1.8(.3)  |       |          |       |        |      |            | 226  | 35   | 001070000 |     |
| 47395 | 9 16 8   | 36 35.6   | 19 | 2.7 | 1.3(.3)  |       |          |       |        |      |            | 187  | 45   | 004100000 |     |
| 47405 | 9 16 46  | 42 58.2   | 21 | 2.6 |          |       | -3.9(.4) |       |        |      |            | 178  | 45   | 004740000 |     |
| 47418 | 9 17 15  | 46 25.8   | 22 | 2.2 |          |       | -3.0(.4) |       |        |      |            | 175  | 45   | 004700000 |     |
| 13395 | 9 17 40  | 3 12.4    | 14 | 3.5 |          |       | -3.4(.4) |       |        |      |            | 228  | 34   | 004070000 |     |
| 13405 | 9 17 56  | 8 55.0    | 16 | 2.8 |          |       | -3.2(.4) |       |        |      |            | 225  | 36   | 004070000 |     |
| 13435 | 9 18 10  | -9 29.9   | 16 | 3.0 | -1.2(.6) |       | -3.4(.5) |       |        |      | EO         | 241  | 27   | 005000000 |     |
| 13455 | 9 18 28  | 41 40.5   | 15 | 2.0 | -1.7(.4) |       |          |       |        |      |            | 180  | 45   | 007200000 |     |
| 13465 | 9 18 45  | -6 33.9   | 16 | 3.0 |          |       |          |       |        |      |            | 239  | 29   | 001070000 |     |
| 13475 | 9 20 28  | 31 58.2   | 17 | 1.8 | 1.4(.3)  |       | -3.2(.4) |       |        |      |            | 194  | 45   | 001070000 |     |
| 13495 | 9 20 48  | 21 35.3   | 16 | 2.2 |          |       |          |       |        |      |            | 208  | 43   | 003070000 |     |
| 47425 | 9 21 57  | 41 55.6   | 21 | 2.6 | 1.6(.3)  |       |          |       |        |      |            | 180  | 46   | 007100000 |     |
| 47435 | 9 23 55  | -7 26.4   | 14 | 3.6 | 1.6(.4)  |       |          |       |        |      |            | 241  | 30   | 007010000 |     |
| 47445 | 9 26 53  | 63 18.7   | 26 | 2.9 | 1.8(.4)  |       |          |       |        |      | 23 UMA     | 151  | 42   | 007100000 |     |
| 47455 | 9 28 15  | 25 16.5   | 17 | 2.1 | 1.8(.6)  |       |          |       | 60195  | 3757 | DO 13922   | 204  | 45   | 001070000 |     |
| 47465 | 9 29 3   | 51 52.7   | 25 | 2.3 | 2.1(.5)  |       |          |       | 30212  |      | DO 13922   | 160  | 46   | 001070000 |     |
| 13595 | 9 29 31  | -7 27.6   | 16 | 3.0 | 1.2(.3)  |       |          |       | 50198  | 3778 | THE UMA    | 241  | 31   | 001070000 |     |
| 13645 | 9 31 8   | -9 3.9    | 16 | 3.0 | 1.2(.3)  |       |          |       |        |      |            | 243  | 30   | 001070000 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA  | ED  | M(4)     | M(11)    | M(20) | M(27) | IRC    | BS   | COMMENTS           | L   | B  | I | OBS. LOG  |
|-------|----------|-----------|-----|-----|----------|----------|-------|-------|--------|------|--------------------|-----|----|---|-----------|
| 47425 | 9 32 3   | 39 50 8   | 14  | 1.7 | 1.6(.4)  |          |       |       | 40209  | 3809 | GC 13221           | 183 |    |   | 001010000 |
| 47485 | 9 32 51  | 14 30.9   | 14  | 3.7 | 1.4(.4)  |          |       |       | -10222 |      | X HYA              | 248 | 27 |   | 000310000 |
| 13675 | 9 34 53  | 11 35.0   | 16  | 3.6 |          | -1.0(.3) |       |       |        |      |                    | 222 | 42 |   | 02+020000 |
| 47495 | 9 35 18  | 58 46.6   | 21  | 1.8 | 1.7(.4)  |          |       |       | 60196  | 3834 | DO 32928           | 156 | 44 |   | 091710000 |
| 47505 | 9 36 1   | 4 51.9    | 8   | 2.0 | 1.6(.3)  |          |       |       | 189    |      | DO 2798            | 230 | 39 |   | 0050+0000 |
| 13705 | 9 39 11  | 19 27.0   | 10  | 2.4 |          | -3.6(.4) |       |       |        |      |                    | 213 | 46 |   | 0040+0000 |
| 47515 | 9 39 39  | 10 10.6   | 15  | 3.6 | 1.6(.5)  |          |       |       | 10210  | 3852 | OMI L <sup>2</sup> | 225 | 42 |   | 002010000 |
| 47525 | 9 39 16  | 72 25.2   | 50  | 2.1 | 1.9(.5)  |          |       |       | 70922  | 3839 | 27 UMA             | 139 | 38 |   | 77170000  |
| 47535 | 9 40 15  | 53 58.5   | 26  | 2.5 | 1.4(.4)  |          |       |       | 50200  |      | TY UMA             | 162 | 47 |   | 00+100000 |
| 13735 | 9 41 33  | 46 17.6   | 22  | 1.9 | 1.6(.3)  |          |       |       |        |      |                    | 173 | 49 |   | 005+0000  |
| 13745 | 9 42 1   | 69 43.1   | 31  | 1.6 | 1.7(.4)  |          |       |       |        |      |                    | 142 | 40 |   | 3+270000  |
| 13755 | 9 42 13  | 18 1.7    | 12  | 2.2 | -1.0(.4) |          |       |       |        |      |                    | 215 | 46 |   | 002020000 |
| 13765 | 9 42 55  | 16 16.7   | 12  | 2.2 | -1.5(.4) |          |       |       |        |      |                    | 218 | 46 |   | 002020000 |
| 47545 | 9 43 48  | -5 21.8   | 14  | 3.7 | -1.5(.3) |          |       |       | -10224 |      |                    | 243 | 34 |   | 000010000 |
| 47555 | 9 44 24  | 5 55.9    | 16  | 2.6 | 1.6(.4)  |          |       |       |        |      | IC 2509            | 230 | 41 |   | 0020+0000 |
| 47565 | 9 45 21  | 53 47.2   | 26  | 2.6 | 1.6(.3)  |          |       |       | 50201  |      | DO 33010           | 162 | 47 |   | 00100000  |
| 13855 | 9 47 56  | 2 23.7    | 16  | 2.7 | 1.4(.3)  |          |       |       |        |      |                    | 235 | 40 |   | 0010+0000 |
| 47575 | 9 48 9   | 13 14.8   | 16  | 3.7 | 2.0(.5)  |          |       |       | 10217  | 3896 | 23 LEO             | 222 | 46 |   | 002030000 |
| 13835 | 9 48 9   | 16 13.7   | 16  | 2.4 | 1.3(.3)  |          |       |       |        |      |                    | 218 | 47 |   | 0010+0000 |
| 13845 | 9 48 46  | 0 2.1     | 18  | 2.7 | 1.1(.3)  |          |       |       |        |      |                    | 238 | 39 |   | 0010+0000 |
| 47585 | 9 51 1   | 10 31.9   | 16  | 2.5 | 1.3(.4)  |          |       |       |        |      |                    | 226 | 45 |   | 0010+0000 |
| 47595 | 9 51 2   | -17 42.0  | 14  | 3.7 | 1.7(.4)  |          |       |       | 10219  |      | DO 2849            | 254 | 28 |   | 000310000 |
| 13905 | 9 52 55  | 58 27.6   | 29  | 2.2 | 1.3(.3)  |          |       |       | -20200 |      |                    | 155 | 47 |   | 001+00000 |
| 13915 | 9 53 8   | 55 31.4   | 27  | 2.6 | 1.2(.3)  |          |       |       |        |      |                    | 159 | 48 |   | 00+100000 |
| 47605 | 9 56 18  | 5 3.2     | 16  | 2.6 | 1.5(.4)  |          |       |       | 10223  |      | DO 2861            | 234 | 43 |   | 0010+0000 |
| 47615 | 9 56 22  | 57 2.7    | 20  | 1.7 | 1.8(.3)  |          |       |       | 60199  | 3939 | DO 33091           | 156 | 48 |   | 20+100000 |
| 47625 | 9 57 34  | 70 12.1   | 46  | 2.4 | 1.5(.3)  |          |       |       |        |      |                    | 141 | 41 |   | 77170000  |
| 47635 | 10 0 7   | 41 31.6   | 19  | 1.7 | 1.5(.4)  |          |       |       | 40214  |      | DO 33133.E0        | 179 | 53 |   | 0010+0000 |
| 13935 | 10 0 31  | 20 57.3   | 18  | 3.8 | 1.5(.4)  |          |       |       |        |      |                    | 213 | 51 |   | 00+040000 |
| 13945 | 10 1 5   | 45 8.3    | 21  | 1.6 | 1.5(.3)  |          |       |       |        |      |                    | 174 | 52 |   | 001000000 |
| 47645 | 10 1 14  | -9 20.2   | 13  | 3.7 | 1.5(.4)  |          |       |       | -10228 | 3959 | GC 13823           | 249 | 35 |   | 000010000 |
| 47655 | 10 2 6   | 84 4.9    | 146 | 2.0 | 1.4(.3)  |          |       |       |        |      |                    | 128 | 32 |   | 770172000 |
| 47665 | 10 2 17  | 65 48.9   | 196 | 2.7 |          | -1.6(.4) |       |       |        |      | SVS 101081         | 125 | 30 |   | 720272000 |
| 47675 | 10 2 59  | -58 26.9  | 28  | 3.7 | -1.0(.5) |          |       |       |        |      |                    | 283 | -3 |   | 000000000 |
| 47685 | 10 3 6   | 18 18.7   | 17  | 3.8 | 1.4(.4)  |          |       |       | 20216  |      | DO 14081           | 217 | 51 |   | 00+010000 |
| 13985 | 10 5 9   | 10 58.3   | 16  | 3.8 |          | -3.4(.4) |       |       |        |      |                    | 228 | 48 |   | 00+040000 |
| 47695 | 10 5 13  | 1 13.6    | 14  | 3.8 | 1.9(.4)  |          |       |       | 192    |      | DO 2890            | 240 | 43 |   | 000010000 |
| 47705 | 10 5 29  | 17 35.8   | 17  | 3.9 | 1.0(.3)  |          |       |       | 20217  |      | DD LEO             | 219 | 51 |   | 00+010000 |
| 47715 | 10 5 39  | 12 12.8   | 16  | 3.8 | 1.6(.4)  |          |       |       | 10226  | 3982 | ALF LEO            | 226 | 49 |   | 00+010000 |
| 47725 | 10 7 27  | 24 36.6   | 18  | 3.7 | -1.5(.4) |          |       |       |        |      | IC 2551            | 208 | 54 |   | 00+020000 |
| 47735 | 10 8 56  | -18 43.3  | 9   | 2.2 | 1.3(.3)  |          |       |       | -20206 |      | GC 13998           | 258 | 30 |   | 000010000 |
| 14015 | 10 10 57 | 59 39.8   | 21  | 1.5 | 1.5(.4)  |          |       |       | 60201  |      | DO 33211           | 152 | 48 |   | 201100000 |
| 14025 | 10 11 24 | 56 36.5   | 19  | 1.3 | 1.0(.3)  |          |       |       | 60202  |      | DO 33214           | 156 | 50 |   | 201+00000 |
| 47745 | 10 12 46 | -57 34.2  | 28  | 3.7 | -1.3(.5) |          |       |       |        |      |                    | 283 | -1 |   | 000000070 |
| 47755 | 10 12 49 | 79 34.4   | 82  | 1.8 | 1.6(.3)  |          |       |       |        |      |                    | 131 | 35 |   | 177772000 |
| 47765 | 10 13 21 | -54 12.4  | 25  | 3.7 | -2.2(.4) |          |       |       |        |      | W VEL              | 281 | -1 |   | 000000020 |
| 47775 | 10 15 2  | -57 40.6  | 28  | 3.7 | -1.7(.4) |          |       |       |        |      | MGC 3199           | 284 | -1 |   | 000000020 |
| 14065 | 10 16 10 | 18 50.3   | 17  | 3.9 |          | -3.4(.4) |       |       |        |      |                    | 218 | 54 |   | 00+040000 |
| 47785 | 10 16 21 | -53 45.0  | 25  | 3.7 | -2.4(.4) |          |       |       |        |      |                    | 282 | 2  |   | 000000020 |
| 14095 | 10 16 33 | 21 30.0   | 18  | 3.8 | 1.7(.4)  |          |       |       |        |      |                    | 214 | 55 |   | 00+050000 |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED      | M(4)    | M(11)    | M(20)    | M(27) | IRC    | RS   | COMMENTS    | L I I | O I I | OFS       | LOG |
|-------|----------|-----------|----|---------|---------|----------|----------|-------|--------|------|-------------|-------|-------|-----------|-----|
|       | M M S    | O .       | S  |         |         |          |          |       |        |      |             |       |       |           |     |
| 47795 | 10 19 38 | 25 44.4   | 17 | 2.2     | 1.2(.4) |          |          |       | 30220  |      | DO 1465     | 207   | 57    | 00100000  |     |
| 47805 | 10 21 3  | -3 22.0   | 14 | 3.9     | 1.9(.4) |          |          |       | 193    |      | DO 2932     | 248   | 43    | 00001000  |     |
| 47815 | 10 24 52 | -25 17.9  | 9  | 2.1     | 1.0(.3) |          |          |       | -30165 |      | CZ HYA      | 266   | 27    | 00001000  |     |
| 47825 | 10 25 0  | -36 57.4  | 14 | 1.6     | 1.5(.5) | -1.4(.5) |          |       | 40219  | 4100 | BET LMI     | 186   | 58    | 10200000  |     |
| 47835 | 10 25 24 | -1 33.4   | 13 | 3.8     | 1.6(.4) |          |          |       | -20211 |      | GC 14375    | 264   | 30    | 00001000  |     |
| 47845 | 10 25 34 | 84        | 3  | 150 3.5 |         | -9(.4)   |          |       |        |      | BRIGHT NEB  | 127   | 32    | 00000000  |     |
| 47855 | 10 27 41 | 75 9.0    | 27 | 2.2     | 1.2(.4) | -1.6(.4) | -3.7(.4) |       |        |      |             | 134   | 39    | ++6.3000  |     |
| 47865 | 10 28 29 | -7 22.0   | 14 | 3.9     | 1.9(.4) |          |          |       | -10241 | 4122 | GC 14442    | 253   | 41    | 00001000  |     |
| 47875 | 10 29 45 | 44 7.5    | 21 | 2.2     | 1.5(.3) | -5(.4)   | -3.1(.4) |       |        |      |             | 173   | 58    | 70+0000   |     |
| 47885 | 10 31 17 | 68 44.3   | 41 | 1.7     |         |          | -3.2(.4) |       |        |      |             | 140   | 44    | 47+0000   |     |
| 47895 | 10 32 8  | 7 11.4    | 15 | 3.9     | 2.3(.4) |          |          |       | 10232  | 4146 | 48 LEO      | 239   | 52    | 00001000  |     |
| 47905 | 10 32 32 | 14 37.5   | 17 | 4.5     | 1.8(.3) | -1.7(.4) |          |       |        |      |             | 228   | 56    | 00001000  |     |
| 47915 | 10 32 47 | -48 36.9  | 14 | 2.3     |         |          | -4.0(.4) |       |        |      |             | 281   | 8     | 00000020  |     |
| 47925 | 10 33 32 | -63 20.9  | 34 | 3.5     | 1.2(.3) |          |          |       |        |      |             | 288   | -5    | 0000004+  |     |
| 47935 | 10 34 26 | 79 3      | 80 | 2.1     |         |          |          |       |        |      |             | 131   | 36    | 13000000  |     |
| 47945 | 10 37 7  | 72 54.2   | 37 | 1.6     |         | -5(.4)   | -2.7(.5) |       |        |      |             | 135   | 41    | 27750000  |     |
| 47955 | 10 37 12 | -22 3.7   | 13 | 3.8     |         | -3.9(.4) |          |       |        |      |             | 267   | 31    | 00001000  |     |
| 47965 | 10 38 5  | 68 42.5   | 41 | 1.8     | 1.9(.4) |          |          |       | 70096  | 4176 | GC 14682    | 139   | 44    | 71+0000   |     |
| 47975 | 10 39 6  | 31 57.5   | 18 | 2.5     | 1.3(.4) |          |          |       | 30224  | 4184 | RX LMI      | 195   | 62    | 10000000  |     |
| 47985 | 10 42 45 | 52 30.9   | 17 | 1.3     |         | -8(.5)   | -2.6(.5) |       |        |      | BH UMA      | 157   | 56    | 60200000  |     |
| 47995 | 10 43 42 | -59 52.8  | 31 | 3.5     |         | -1.4(.4) |          |       |        |      | BH CAR.EO.R | 288   | -1    | 00000020  |     |
| 48005 | 10 44 4  | 65 5.5    | 37 | 3.5     | 1.3(.4) |          |          |       | 70101  |      | DO 33420    | 141   | 47    | 71+0000   |     |
| 48015 | 10 45 57 | -1 43.5   | 13 | 3.9     | 1.0(.4) |          |          |       | 195    | 4224 | DO 3001     | 253   | 48    | 00001000  |     |
| 48025 | 10 52 39 | 22 25.0   | 9  | 2.0     |         | -1.5(.5) | -3.2(.4) |       |        |      |             | 217   | 63    | 40+0000   |     |
| 48035 | 10 53 33 | 74 24.6   | 41 | 2.5     |         |          |          |       |        |      |             | 133   | 41    | 70220000  |     |
| 48045 | 10 56 27 | 36 20.6   | 19 | 2.4     | 1.2(.3) |          |          |       | 40221  | 4278 | DO 14320    | 182   | 65    | 10000000  |     |
| 48055 | 10 57 0  | 45 48.6   | 22 | 2.1     | 1.5(.4) |          |          |       | 50206  | 4280 | GC 15109    | 165   | 61    | 10000000  |     |
| 48065 | 10 57 2  | -18 6.3   | 12 | 3.9     | 1.7(.4) |          |          |       | -20220 | 4284 | GC 15101    | 269   | 39    | 00001000  |     |
| 48075 | 10 59 1  | 73 8.2    | 38 | 2.0     |         | -3.3(.4) |          |       |        |      |             | 133   | 42    | 440+0000  |     |
| 48085 | 11 2 45  | 72 57.4   | 36 | 2.3     | 2.3(.5) | -1.3(.4) | -2.8(.5) |       |        |      |             | 133   | 42    | 6+0+30000 |     |
| 48095 | 11 3 50  | -82 13.5  | 17 | 2.0     |         | -1.0(.4) | -3.3(.6) |       |        |      | RCW 36      | 281   | -2    | 000000074 |     |
| 48105 | 11 5 7   | 77 38.7   | 41 | 2.8     | 1.4(.3) |          | -3.2(.5) |       |        |      | DO 14381    | 130   | 38    | 70+26000  |     |
| 48115 | 11 6 29  | 20 33.0   | 17 | 2.7     | 1.4(.3) |          |          |       | 20228  |      |             | 224   | 68    | 10000000  |     |
| 48125 | 11 7 0   | 31 7.8    | 18 | 2.5     | 1.4(.3) |          |          |       |        |      |             | 197   | 67    | 10+000000 |     |
| 48135 | 11 7 26  | -43 47.7  | 21 | 3.4     |         | -2.6(.4) |          |       |        |      |             | 284   | 15    | 00000020  |     |
| 48145 | 11 7 53  | 1 18.6    | 14 | 4.0     |         | -1.1(.4) |          |       |        |      |             | 256   | 54    | 00000000  |     |
| 48155 | 11 8 2   | 11 34.4   | 16 | 2.9     | 1.7(.3) |          |          |       | 10236  |      | DO 3087     | 242   | 62    | 10000000  |     |
| 48165 | 11 9 45  | 28 49.2   | 18 | 2.8     | 1.6(.3) | -3(.4)   |          |       |        |      |             | 203   | 68    | 30000000  |     |
| 48175 | 11 10 0  | -8 43.6   | 12 | 4.0     |         | -1.0(.4) |          |       |        |      |             | 256   | 47    | 00002000  |     |
| 48185 | 11 11 50 | 27 10.0   | 18 | 2.7     | 1.4(.3) |          |          |       |        |      |             | 208   | 63    | 10000000  |     |
| 48195 | 11 12 10 | 73 29.9   | 53 | 4.1     |         | -1.2(.4) |          |       |        |      |             | 132   | 42    | 770+20000 |     |
| 48205 | 11 12 52 | -11 21.1  | 12 | 4.0     | 1.3(.3) |          |          |       | -10251 |      |             | 269   | 45    | 00001000  |     |
| 48215 | 11 13 20 | 13 34.3   | 16 | 2.8     | 1.7(.4) | -6(.5)   |          |       | 10237  | 4368 | 73 LEO      | 240   | 64    | 30000000  |     |
| 48225 | 11 14 13 | 10 3.9    | 16 | 2.9     | 1.5(.3) |          |          |       |        |      | IC 2680     | 246   | 62    | 30000000  |     |
| 48235 | 11 15 43 | -39 37.6  | 20 | 3.4     |         | -2.2(.4) |          |       |        |      | V437 CEN    | 284   | 20    | 00000000  |     |
| 48245 | 11 16 10 | -61 9.1   | 33 | 3.3     |         | -1.4(.5) | -6.2(.7) |       |        |      |             | 202   | -1    | 00000000  |     |
| 48255 | 11 16 15 | -46 5.3   | 13 | 2.3     |         | -1.5(.4) |          |       |        |      |             | 267   | 14    | 00000000  |     |
| 48265 | 11 17 27 | 12 23.2   | 16 | 2.9     |         | -3.4(.4) |          |       |        |      | IC 2721     | 243   | 64    | 40000000  |     |
| 48275 | 11 18 32 | 4 33.7    | 14 | 4.2     |         | -3.2(.4) |          |       |        |      |             | 256   | 59    | +00020000 |     |
| 48285 | 11 20 48 | 17 5.4    | 17 | 2.9     | 1.5(.4) |          |          |       | 20228  |      | 12 LEO      | 235   | 67    | 10000000  |     |



TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)     | M(11)     | M(20)     | M(27)     | INC    | BS   | COMMENTS           | L 11 | B 11 | SBS       | LOG |
|-------|----------|-----------|----|-----|----------|-----------|-----------|-----------|--------|------|--------------------|------|------|-----------|-----|
| 48125 | 11 22 17 | -48 7.0   | 72 | 3.4 |          |           | -3.8(1.5) |           |        |      |                    | 288  | 12   | 00000000  | 10  |
| 48135 | 11 22 22 | 77 16.7   | 72 | 3.0 | 1.4(1.3) |           |           |           |        |      |                    | 129  | 34   | +0.17000  |     |
| 48145 | 11 23 28 | -11 28.6  | 12 | 3.9 | 1.5(1.5) |           |           |           |        |      |                    | 273  | 44   | 00000000  |     |
| 48155 | 11 23 57 | 72 45.6   | 53 | 2.8 | 1.5(1.3) |           |           |           | -10285 |      | GC 15690           | 131  | 43   | 10000000  |     |
| 48165 | 11 24 22 | 13 9.1    | 16 | 2.8 |          | -6(1.4)   |           |           |        |      |                    | 245  | 66   | 20000000  |     |
| 48175 | 11 24 59 | 3 8.0     | 16 | 3.1 |          |           | -2.7(1.4) |           | 205    | 4418 | IC 2823<br>TAU LEO | 260  | 59   | 40000000  |     |
| 48185 | 11 25 47 | 24 7.3    | 17 | 2.7 | 1.6(1.3) |           |           |           |        |      |                    | 218  | 71   | 10000000  |     |
| 48195 | 11 26 8  | 1 42.1    | 16 | 3.1 | 1.5(1.3) |           |           |           |        |      |                    | 262  | 56   | 10000000  |     |
| 48205 | 11 27 27 | -62 23.0  | 20 | 2.3 |          |           | -2.8(1.4) |           |        |      |                    | 294  | -1   | 00000000  |     |
| 48215 | 11 28 55 | 5 22.4    | 14 | 4.2 |          |           | -3.1(1.4) |           |        |      |                    | 259  | 61   | +0.000000 |     |
| 48225 | 11 29 57 | -26 30.2  | 11 | 3.9 | 1.3(1.3) |           |           |           | -30176 | 4445 | GC 15832           | 282  | 33   | 00000000  |     |
| 48235 | 11 31 10 | 2 47.4    | 16 | 3.1 | 1.6(1.4) |           |           |           | 208    |      | GC 15852           | 263  | 59   | 10000000  |     |
| 48245 | 11 32 2  | 60 5.6    | 93 | 3.1 | 1.6(1.3) |           |           |           |        |      |                    | 127  | 37   | 10000000  |     |
| 48255 | 11 35 19 | 2 57.1    | 13 | 4.1 | .4(1.3)  |           |           |           |        |      |                    | 264  | 60   | +0.000000 |     |
| 48265 | 11 37 15 | -58 35.1  | 30 | 3.2 |          |           | -3.5(1.4) |           |        |      | EO                 | 294  | 3    | 00000000  |     |
| 48275 | 11 37 37 | 16 13.5   | 17 | 2.9 | 1.5(1.3) |           |           |           | -30180 |      |                    | 243  | 70   | 10000000  |     |
| 48285 | 11 37 43 | -30 1.0   | 11 | 3.8 | 1.1(1.4) |           |           |           |        |      |                    | 285  | 30   | 00000000  |     |
| 48295 | 11 38 27 | 26 19.2   | 17 | 2.6 | 1.2(1.3) |           |           |           |        |      |                    | 213  | 74   | 10000000  |     |
| 48305 | 11 38 14 | -32 9.7   | 11 | 3.8 | 1.3(1.4) |           |           |           | -30181 | 4503 | GC 16055           | 286  | 28   | 00000000  |     |
| 48315 | 11 39 19 | 55 27.1   | 19 | 2.0 | 1.4(1.4) |           |           |           | 60211  | 4500 | GC 16052           | 142  | 59   | 10000000  |     |
| 48325 | 11 39 47 | -48 12.7  | 24 | 3.3 |          | -1.0(1.4) |           |           |        |      |                    | 291  | 13   | 00000000  |     |
| 48335 | 11 42 16 | 53 46.3   | 26 | 2.2 | 1.7(1.3) |           |           |           |        |      |                    | 143  | 61   | 10000000  |     |
| 48345 | 11 43 31 | -24 40.6  | 10 | 3.8 |          | -7(1.4)   |           |           | -20232 |      |                    | 285  | 36   | 00000000  |     |
| 48355 | 11 44 3  | -63 30.7  | 36 | 3.0 |          | -1.4(1.4) |           |           |        |      |                    | 296  | -2   | 00000000  |     |
| 48365 | 11 45 47 | -43 46.2  | 22 | 3.3 |          |           | -3.9(1.4) |           |        |      |                    | 291  | 17   | 00000000  |     |
| 48375 | 11 46 41 | -3 2.4    | 10 | 2.6 | 1.5(1.3) |           |           |           |        |      |                    | 274  | 56   | 10000000  |     |
| 48385 | 11 47 42 | 51 41.7   | 25 | 2.4 | 1.8(1.4) |           |           |           | 211    |      | DO 3152            | 144  | 63   | 10000000  |     |
| 48395 | 11 50 9  | -7 20.5   | 10 | 2.6 | 1.1(1.3) |           |           |           | 50214  |      | DO 33833           | 279  | 52   | 10000000  |     |
| 48405 | 11 50 53 | 53 56.8   | 26 | 3.3 | 1.6(1.4) |           |           |           | -10259 |      | GAM UNA            | 141  | 61   | 10000000  |     |
| 48415 | 11 52 18 | -17 39.9  | 10 | 3.9 | 1.3(1.3) |           |           |           | 50215  | 4554 |                    | 284  | 43   | 00000000  |     |
| 48425 | 11 53 38 | -29 17.3  | 10 | 3.8 |          |           | -3.3(1.4) |           |        |      |                    | 289  | 32   | 00000000  |     |
| 48435 | 11 56 46 | -29 44.3  | 10 | 3.8 | 1.8(1.4) |           |           |           | -30186 |      | GC 16392           | 290  | 32   | 00000000  |     |
| 48445 | 11 56 57 | 49 10.4   | 24 | 3.3 | 1.4(1.3) |           |           |           |        |      |                    | 144  | 66   | 10000000  |     |
| 48455 | 11 57 14 | -13 14.1  | 10 | 3.9 |          | -7(1.4)   |           |           |        |      |                    | 284  | 47   | 00000000  |     |
| 48465 | 11 58 9  | -27 26.1  | 10 | 2.5 |          |           | -3.9(1.4) |           |        |      |                    | 289  | 34   | 00000000  |     |
| 48475 | 11 58 21 | 3 5.6     | 12 | 4.1 | 1.8(1.4) |           |           |           |        |      |                    | 274  | 63   | +0.000000 |     |
| 48485 | 11 59 42 | -62 50.0  | 22 | 2.1 |          | -2.3(1.3) |           | -6.2(1.6) |        |      | NGC 4052           | 297  | -1   | 00000000  |     |
| 48495 | 11 59 49 | 35 37.7   | 16 | 2.2 |          |           | -4.5(1.6) |           |        |      |                    | 172  | 77   | 40000000  |     |
| 48505 | 11 59 52 | 21 16.4   | 17 | 2.9 | 1.4(1.3) |           |           |           |        |      |                    | 239  | 77   | 10000000  |     |
| 48515 | 12 1 43  | 19 3.5    | 17 | 3.0 | 1.2(1.3) |           |           |           | 20237  |      | R COM              | 248  | 76   | 10000000  |     |
| 48525 | 12 3 3   | -24 36.2  | 9  | 3.8 |          |           | -3.4(1.4) |           |        |      |                    | 290  | 37   | 00000000  |     |
| 48535 | 12 4 20  | 19 58.5   | 17 | 3.0 |          |           | -3.2(1.4) |           |        |      |                    | 247  | 77   | 40000000  |     |
| 48545 | 12 7 34  | -53 44.8  | 17 | 2.2 |          | -1.6(1.4) |           |           |        |      | AY CRU             | 298  | 3    | 00000000  |     |
| 48555 | 12 8 8   | 35 24.5   | 18 | 2.1 | 1.4(1.3) |           |           |           |        |      |                    | 168  | 78   | 10000000  |     |
| 48565 | 12 8 57  | 51 23.9   | 25 | 2.8 | 1.4(1.2) |           |           |           |        |      |                    | 138  | 65   | 10000000  |     |
| 48575 | 12 10 0  | 21 5.4    | 17 | 2.9 | 1.6(1.2) |           |           |           |        |      |                    | 246  | 79   | 10000000  |     |
| 48585 | 12 12 10 | 43 11.3   | 23 | 2.5 | 1.6(1.3) |           |           |           |        |      |                    | 140  | 68   | 10000000  |     |
| 48595 | 12 17 20 | 11 53.4   | 17 | 3.3 | 1.8(1.4) |           |           |           | 10251  |      | IC 3159            | 276  | 73   | 10000000  |     |
| 48605 | 12 17 46 | -8 42.7   | 9  | 2.2 | 1.4(1.4) |           |           |           | -10265 |      | CH VIR             | 290  | 53   | 10000000  |     |
| 48615 | 12 17 47 | 3 35.1    | 18 | 3.3 | 1.1(1.3) |           |           |           | 215    | 4695 | 16 VIR             | 284  | 65   | 10000000  |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)   | M(11) | M(20)   | M(27) | IRC | BS | COMMENTS    | L I | B I | OBS.      | LOG |
|-------|----------|-----------|----|-----|--------|-------|---------|-------|-----|----|-------------|-----|-----|-----------|-----|
|       | H        | M         | S  |     |        |       |         |       |     |    |             |     |     |           |     |
| 15465 | 12 19 24 | -10 2 5   | 15 | 3.4 | 1.4(2) |       |         |       |     |    |             | 291 | 52  | 100000000 |     |
| 48305 | 12 19 45 | 5 8.4     | 16 | 3.2 | 1.3(3) |       |         |       |     |    | DO 3219     | R   |     | 100000000 |     |
| 48315 | 12 20 12 | 77 10.3   | 70 | 2.3 | 1.3(3) |       |         |       |     |    | DO 3224     |     |     | 100000000 |     |
| 48325 | 12 21 33 | 6 15.6    | 16 | 3.3 | 2.0(5) |       |         |       |     |    | IC 3277.ED  |     |     | 100000000 |     |
| 48435 | 12 21 35 | 25 49.9   | 17 | 2.8 |        |       | -1.6(4) |       |     |    | ST CRU      |     |     | 100000000 |     |
| 48445 | 12 23 3  | -59 42.1  | 3  | 2.8 |        |       | -1.7(4) |       |     |    | SVS 1860    |     |     | 100000000 |     |
| 48455 | 12 23 43 | -59 19.8  | 20 | 2.4 |        |       | -3.2(8) |       |     |    |             | R   |     | 100000000 |     |
| 15535 | 12 25 52 | -6 23.2   | 16 | 3.6 | 1.4(3) |       |         |       |     |    | DO 3236     |     |     | 100000000 |     |
| 48465 | 12 26 37 | -3 48.0   | 10 | 3.8 | 1.5(4) |       | -2(4)   |       |     |    | DO 3235     |     |     | 100000000 |     |
| 48475 | 12 26 37 | -2 6.7    | 10 | 3.9 | 1.4(4) |       |         |       |     |    |             |     |     | 100000000 |     |
| 48485 | 12 26 56 | -76 46.0  | 67 | 2.3 |        |       | -1.8(4) |       |     |    |             |     |     | 100000000 |     |
| 48495 | 12 27 55 | 31 49.0   | 18 | 2.4 | 1.7(4) |       | -3.1(8) |       |     |    | T CVM       |     |     | 100000000 |     |
| 15565 | 12 28 17 | 69 54.1   | 48 | 2.7 | 1.3(3) |       |         |       |     |    | IC 3462     |     |     | 100000000 |     |
| 48505 | 12 29 55 | 15 35.9   | 17 | 3.1 | 1.5(3) |       |         |       |     |    |             |     |     | 100000000 |     |
| 15575 | 12 30 39 | 40 32.4   | 20 | 2.4 | 1.4(3) |       |         |       |     |    |             |     |     | 100000000 |     |
| 48515 | 12 31 11 | -7 3.8    | 16 | 3.6 |        |       | -3.6(8) |       |     |    | IC 0799     |     |     | 100000000 |     |
| 48525 | 12 31 19 | 41 39.0   | 21 | 2.5 | 1.5(3) |       |         |       |     |    | BET CVM     |     |     | 100000000 |     |
| 15615 | 12 32 33 | 70 17.8   | 33 | 2.2 | 1.6(3) |       |         |       |     |    | 6 DRA       |     |     | 100000000 |     |
| 48535 | 12 32 43 | 18 38.4   | 17 | 3.2 | 1.5(5) |       |         |       |     |    | 24 COM      |     |     | 100000000 |     |
| 15625 | 12 33 30 | 21 8      | 17 | 3.1 |        |       | -6(4)   |       |     |    |             |     |     | 100000000 |     |
| 48545 | 12 36 12 | -4 4.7    | 16 | 3.6 | 1.3(4) |       |         |       |     |    | DO 3265     |     |     | 100000000 |     |
| 48555 | 12 36 31 | -30 13.9  | 18 | 3.2 |        |       | -2.3(4) |       |     |    | SVS 101308  |     |     | 100000000 |     |
| 15685 | 12 37 20 | 36 42.6   | 11 | 2.2 | 1.2(3) |       |         |       |     |    |             |     |     | 100000000 |     |
| 48565 | 12 38 12 | -61 28.1  | 33 | 2.7 |        |       | -3.3(8) |       |     |    |             |     |     | 100000000 |     |
| 48575 | 12 38 35 | -27 33.9  | 7  | 3.7 | 1.4(4) |       |         |       |     |    | GC 17255    |     |     | 100000000 |     |
| 48585 | 12 38 41 | 11 41.7   | 17 | 3.3 |        |       | -2.9(4) |       |     |    | IC 3653     |     |     | 100000000 |     |
| 48595 | 12 39 2  | -37 21.9  | 11 | 2.3 |        |       | -2.7(8) |       |     |    | V453 CEN    |     |     | 100000000 |     |
| 48605 | 12 39 19 | -7 14.5   | 15 | 3.7 | 1.8(3) |       |         |       |     |    | GC 17277    |     |     | 100000000 |     |
| 15725 | 12 39 42 | -13 50.4  | 8  | 3.7 | 1.2(3) |       |         |       |     |    |             |     |     | 100000000 |     |
| 48615 | 12 40 36 | -24 42.8  | 7  | 1.7 | 1.3(4) |       |         |       |     |    | GC 17299    |     |     | 100000000 |     |
| 15745 | 12 40 40 | 9 31.5    | 16 | 3.4 |        |       | -4(4)   |       |     |    |             |     |     | 100000000 |     |
| 48625 | 12 40 47 | 10 23.5   | 16 | 3.4 | 1.5(4) |       |         |       |     |    | DO 3275     |     |     | 100000000 |     |
| 48635 | 12 40 59 | 77 52.1   | 72 | 2.2 |        |       | -3.3(4) |       |     |    |             |     |     | 100000000 |     |
| 15775 | 12 43 30 | 47 58.3   | 24 | 3.1 |        |       | -3.4(4) |       |     |    |             |     |     | 100000000 |     |
| 15785 | 12 43 46 | 83 28.0   | 28 | 3.4 | 1.2(3) |       |         |       |     |    | GC 17360.ED |     |     | 100000000 |     |
| 48645 | 12 44 8  | -33 6.9   | 7  | 3.6 | 1.6(4) |       |         |       |     |    | U CVM       |     |     | 100000000 |     |
| 48655 | 12 44 48 | 38 40.3   | 19 | 2.4 | 1.5(5) |       |         |       |     |    | 7 DRA       |     |     | 100000000 |     |
| 48665 | 12 45 7  | 67 6.3    | 41 | 3.7 | 1.7(5) |       |         |       |     |    | IC 0821     |     |     | 100000000 |     |
| 48675 | 12 45 24 | 30 2.7    | 17 | 1.7 |        |       | -6(4)   |       |     |    | 32 COM      |     |     | 100000000 |     |
| 48685 | 12 50 0  | 17 22.6   | 17 | 3.3 | 2.0(4) |       |         |       |     |    |             |     |     | 100000000 |     |
| 48695 | 12 51 8  | -25 43.7  | 9  | 2.4 | 1.2(3) |       |         |       |     |    | SVS 1948    |     |     | 100000000 |     |
| 48705 | 12 51 26 | 46 55.0   | 16 | 2.1 | 1.3(4) |       | -1.4(8) |       |     |    | DO 34220    |     |     | 100000000 |     |
| 48715 | 12 52 49 | 11 44.8   | 17 | 3.5 |        |       |         |       |     |    | DO 3298     |     |     | 100000000 |     |
| 15805 | 12 54 15 | -22 59.2  | 6  | 3.6 |        |       | -3.3(4) |       |     |    |             |     |     | 100000000 |     |
| 15905 | 12 56 48 | 0 29.0    | 9  | 3.6 |        |       | -1.0(4) |       |     |    |             |     |     | 100000000 |     |
| 48725 | 12 57 5  | 76 41.9   | 42 | 2.4 | 1.6(4) |       |         |       |     |    | DO 14510    |     |     | 100000000 |     |
| 15915 | 12 57 22 | 19 38.0   | 17 | 3.1 |        |       | -3.4(4) |       |     |    |             |     |     | 100000000 |     |
| 48735 | 12 57 49 | -51 51.6  | 26 | 2.8 | -2(4)  |       | -3.6(5) |       |     |    |             |     |     | 100000000 |     |
| 48745 | 12 57 54 | 86 52.1   | 40 | 2.4 | 1.5(4) |       |         |       |     |    | 9 DRA       |     |     | 100000000 |     |
| 15955 | 12 0 1   | 17 7.8    | 17 | 3.3 | 1.5(3) |       | -2.3(8) |       |     |    |             |     |     | 100000000 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA     | ED | M(4)    | M(11)    | M(20)    | M(27) | IRC    | BS   | COMMENTS    | L II | B II | OBS.      | LOG |
|-------|----------|-----------|--------|----|---------|----------|----------|-------|--------|------|-------------|------|------|-----------|-----|
| 48755 | 13 0 30  | -63 23.1  | 34 2.4 |    |         | -1.5(.4) |          |       |        |      | TY CEN      | 304  | -1   | 000000022 |     |
| 48765 | 13 0 42  | 5 8.4     | 17 3.8 |    | 1.6(.4) |          |          |       | 10263  |      | DO 3311     | 311  | 68   | 100000000 |     |
| 15985 | 13 2 7   | 69 25.6   | 44 2.3 |    | 1.5(.4) | -1.2(.4) |          |       |        |      | YY VIR      | 310  | 57   | 000000000 |     |
| 48775 | 13 4 14  | 5 38.6    | 8 3.7  |    |         |          | -3.1(.4) |       |        |      | 41 COM      | 310  | 42   | 000000000 |     |
| 48785 | 13 4 41  | 27 54.1   | 18 3.3 |    | 1.4(.4) |          |          |       | 30245  | 4964 |             | 108  | 77   | 010000000 |     |
| 16005 | 13 5 58  | 39 26.8   | 20 3.0 |    | 1.4(.3) |          |          |       |        |      | EO          | 307  | 30   | 000000000 |     |
| 48795 | 13 6 7   | 32 47.8   | 7 3.7  |    |         | -9(.4)   |          |       | -30202 |      |             | 306  | 7    | 000000000 |     |
| 48805 | 13 7 28  | 55 34.9   | 28 2.6 |    |         | -3.4(.5) | -6.6(.6) |       |        |      |             | 308  | 32   | 000000000 |     |
| 16015 | 13 8 36  | -30 38.1  | 7 3.7  |    |         | -3.2(.4) |          |       |        |      |             | 308  | 32   | 000000000 |     |
| 48815 | 13 8 52  | -62 50.4  | 33 2.3 |    |         | -1.9(.4) |          |       |        |      |             | 305  | -0   | 000000000 |     |
| 16035 | 13 8 54  | -29 35.3  | 7 3.7  |    |         |          |          |       |        |      |             | 308  | 33   | 000000000 |     |
| 48825 | 13 9 5   | -47 55.7  | 24 2.8 |    |         | -3.3(.4) |          |       |        |      |             | 306  | 15   | 000000000 |     |
| 48835 | 13 9 46  | 56 40.8   | 30 3.8 |    | 1.5(.5) | -2.9(.5) |          |       | 80223  | 4966 | UW UNA      | 311  | 60   | 100000000 |     |
| 42845 | 13 9 59  | 11 49.2   | 17 3.6 |    | 1.5(.4) |          |          |       | 10266  |      | GC 17884    | 322  | 74   | 100000000 |     |
| 16055 | 13 10 22 | 42 29.7   | 21 2.9 |    | 1.5(.3) |          |          |       |        |      |             | 108  | 74   | 010000000 |     |
| 16075 | 13 11 34 | 5 37.1    | 17 3.8 |    | 1.6(.3) |          |          |       | 231    |      |             | 318  | 68   | 100000000 |     |
| 48895 | 13 12 35 | 4 47.6    | 17 3.8 |    | 1.2(.4) |          |          |       |        |      | DO 3327     | 318  | 67   | 100000000 |     |
| 48905 | 13 13 42 | -12 11.0  | 16 3.3 |    |         | -1.5(.4) |          |       |        |      |             | 312  | 50   | 000000000 |     |
| 48915 | 13 13 17 | -19 44.2  | 8 3.7  |    | 1.4(.4) |          | -3.4(.4) |       | -20248 | 5001 | 57 VIR      | 311  | 42   | 000000000 |     |
| 16095 | 13 13 33 | -0 54.9   | 16 3.8 |    |         |          |          |       |        |      |             | 316  | 61   | 400000000 |     |
| 16135 | 13 15 41 | 32 28.9   | 18 3.1 |    | 1.5(.3) |          |          |       |        |      |             | 76   | 82   | 010000000 |     |
| 48885 | 13 18 2  | -11 12.9  | 15 3.8 |    | 1.5(.4) |          |          |       | -10283 |      | SVS 101376  | 314  | 51   | 100000000 |     |
| 16165 | 13 18 5  | 71 4.9    | 46 2.0 |    |         | -1.6(.4) |          |       |        |      |             | 120  | 46   | 000000000 |     |
| 48905 | 13 18 55 | 75 52.4   | 59 1.7 |    | 1.2(.3) |          |          |       |        |      |             | 121  | 41   | 100000000 |     |
| 48915 | 13 20 27 | -18 3.7   | 15 3.9 |    | 1.6(.3) | -1.5(.4) |          |       | -20251 |      |             | 307  | -0   | 000000000 |     |
| 48925 | 13 20 28 | 59 29.6   | 32 3.9 |    | 1.5(.3) |          |          |       |        |      | SVS 101376  | 313  | 44   | 100000000 |     |
| 16195 | 13 20 43 | 42 21.3   | 21 2.8 |    | 1.6(.3) |          |          |       |        |      |             | 116  | 57   | 100000000 |     |
| 48935 | 13 20 44 | -24 22.8  | 8 3.7  |    | 1.2(.3) |          |          |       | -20252 |      |             | 102  | 74   | 010000000 |     |
| 48945 | 13 20 50 | -4 38.8   | 15 3.9 |    | 1.8(.4) |          |          |       | 234    | 5047 | 65 VIR      | 312  | 38   | 000000000 |     |
| 16215 | 13 21 50 | 55 10.2   | 19 2.2 |    | 1.3(.3) |          | -2.9(.5) |       | 60224  | 5054 | ZET UNA     | 113  | 62   | 150000000 |     |
| 48955 | 13 23 54 | -40 26.7  | 21 2.9 |    | 1.4(.3) |          | -3.2(.4) |       |        |      | DO 34384 EO | 310  | 22   | 000000000 |     |
| 16235 | 13 24 26 | 72 37.4   | 49 1.8 |    | 1.4(.3) |          |          |       | 70118  | 5073 |             | 119  | 45   | 100000000 |     |
| 48975 | 13 25 5  | -27 5.9   | 14 3.9 |    | 1.9(.3) |          |          |       |        |      | IC 4255     | 314  | 39   | 100000000 |     |
| 16265 | 13 26 46 | -10 50.8  | 15 4.0 |    | 1.5(.3) | -2(.4)   |          |       |        |      |             | 313  | 35   | 400000000 |     |
| 46385 | 13 26 47 | -38 5.2   | 20 3.0 |    | 2.0(.3) |          | -2.9(.5) |       |        |      |             | 318  | 51   | 300000000 |     |
| 48995 | 13 28 43 | -25 37.5  | 8 3.8  |    | 2.0(.3) |          |          |       |        |      | IC 4274     | 311  | 24   | 000000000 |     |
| 16305 | 13 29 12 | 23 6.5    | 17 3.3 |    | 1.4(.3) |          |          |       |        |      |             | 314  | 36   | 100000000 |     |
| 49005 | 13 30 22 | -9 52.7   | 9 2.8  |    | 1.8(.4) | -1.5(.4) |          |       | -10289 | 5100 | 76 VIR      | 10   | 80   | 010000000 |     |
| 16315 | 13 31 12 | -59 58.5  | 21 2.1 |    | 1.2(.3) |          | -6.3(.6) |       |        |      |             | 319  | 51   | 100000000 |     |
| 16355 | 13 31 41 | 25 18.6   | 12 3.2 |    | 1.2(.3) |          |          |       |        |      |             | 308  | 2    | 000000000 |     |
| 49025 | 13 33 27 | -62 35.3  | 15 1.9 |    |         | -1.3(.4) |          |       |        |      | OV CEN      | 308  | -0   | 000000000 |     |
| 16385 | 13 33 43 | -2 59.3   | 10 2.8 |    | 0(.3)   |          | -2.8(.4) |       |        |      |             | 324  | 58   | 400000000 |     |
| 49035 | 13 34 20 | -33 49.8  | 19 3.1 |    | 1.2(.3) |          | -3.0(.5) |       |        |      | IC 4298     | 314  | 28   | 000000000 |     |
| 49045 | 13 34 40 | 24 52.5   | 17 3.2 |    | 1.2(.3) |          |          |       | 20260  | 5123 | DO 14781    | 314  | 29   | 010000000 |     |
| 49055 | 13 35 34 | 50 58.0   | 25 2.7 |    | 1.6(.4) |          |          |       | 50230  | 5133 | GC 18437    | 106  | 55   | 010000000 |     |
| 49065 | 13 35 38 | -33 37.8  | 11 2.3 |    | 1.4(.2) | -1.8(.4) | -2.5(.5) |       |        |      |             | 314  | 28   | 000000000 |     |
| 16395 | 13 36 7  | -11 11.8  | 9 2.8  |    |         |          | -2.9(.4) |       | -10291 |      |             | 321  | 50   | 100000000 |     |
| 16405 | 13 36 18 | 1 26.5    | 11 4.0 |    |         |          |          |       |        |      |             | 329  | 62   | 700000000 |     |

TABLE OF OBSERVATIONS

| CL    | RA(1950) | DEC(1950) | RA | ED  | M(4) | M(11) | M(20)     | M(27)     | INC          | BS   | COMMENTS     | L I I | B I I | OBS.      | LOG |
|-------|----------|-----------|----|-----|------|-------|-----------|-----------|--------------|------|--------------|-------|-------|-----------|-----|
| 49075 | 13 36 38 | -82 50.3  | 15 | 1.9 |      |       | -2.8(-.4) | -6.1(-.6) |              |      | FI CEN       | 308   | 0     | 00000047  |     |
| 49085 | 13 38 8  | -52 15.2  | 17 | 2.2 |      |       | -1.8(-.4) |           |              |      |              | 311   | 10    | 00000011  |     |
| 16415 | 13 38 8  | -30 14.4  | 8  | 3.8 |      |       |           |           |              |      |              | 315   | 31    | +00020070 |     |
| 49095 | 13 38 42 | -33 20.7  | 8  | 3.8 |      |       |           |           | -30195E 5147 |      | T CEN. EO    | 315   | 28    | 000010000 |     |
| 49105 | 13 39 39 | -14 7.8   | 10 | 2.3 |      |       |           |           | -20237       |      |              | 319   | 42    | 100070000 |     |
| 49115 | 13 39 59 | -23 32.2  | 17 | 3.2 |      |       |           |           | 20261        |      | DO 14793     | 17    | 78    | 010000000 |     |
| 16445 | 13 41 8  | -9 20.3   | 10 | 3.9 |      |       |           |           |              |      |              | 324   | 51    | +00020070 |     |
| 49125 | 13 41 13 | -61 49.1  | 31 | 1.9 |      |       | -3.5(-.4) |           |              |      |              | 309   | 0     | 00000024+ |     |
| 49135 | 13 43 5  | -0 11.0   | 8  | 2.2 |      |       | -1.8(-.4) | -2.8(-.4) |              |      |              | 330   | 60    | 100040020 |     |
| 16475 | 13 44 21 | 25 27.1   | 17 | 3.2 |      |       |           |           |              |      |              | 27    | 77    | 010000000 |     |
| 16495 | 13 45 7  | 12 56.4   | 16 | 3.4 |      |       |           |           |              |      |              | 348   | 70    | 010000000 |     |
| 49145 | 13 45 17 | -47 53.1  | 24 | 2.7 |      |       |           |           | 50232        |      | DO 34472     | 99    | 67    | 010001000 |     |
| 49155 | 13 45 42 | -27 55.8  | 18 | 3.2 |      |       | -3.7(-.5) |           |              |      |              | 318   | 33    | +00071040 |     |
| 49165 | 13 45 57 | 49 34.6   | 24 | 2.7 |      |       |           |           | 50233        | 5181 | ETA UMA      | 101   | 65    | 010000000 |     |
| 49175 | 13 47 3  | 0 17.7    | 15 | 3.5 |      |       | -3.9(-.4) |           |              |      |              | 333   | 60    | +00070040 |     |
| 49185 | 13 47 19 | -67 16.5  | 38 | 2.1 |      |       | -1.7(-.4) |           |              |      |              | 309   | -5    | 002000020 |     |
| 49195 | 13 48 38 | 34 53.7   | 18 | 3.2 |      |       |           |           | 30250        | 5215 | DO 14818     | 67    | 75    | 010000000 |     |
| 49205 | 13 49 28 | 11 28.6   | 16 | 3.5 |      |       | -1.7(-.4) | -3.9(-.4) |              |      |              | 348   | 69    | 0+0000060 |     |
| 49215 | 13 49 45 | 39 54.9   | 21 | 3.0 |      |       | 1.3(-.5)  |           | 40249        |      | DO 14822     | 82    | 72    | 010000000 |     |
| 16575 | 13 50 3  | -17 21.8  | 14 | 4.0 |      |       | 1.5(-.3)  |           |              |      |              | 323   | 43    | 100070000 |     |
| 49225 | 13 51 56 | -5 31.4   | 16 | 3.4 |      |       | -1.8(-.4) |           |              |      |              | 330   | 54    | +00070020 |     |
| 49235 | 13 52 30 | 16 39.7   | 18 | 3.3 |      |       |           |           | 20267        | 5235 | ETA 800      | 5     | 73    | 010070000 |     |
| 16625 | 13 54 6  | -11 10.6  | 10 | 3.9 |      |       | -3.8(-.4) |           |              |      |              | 327   | 48    | +00070020 |     |
| 16645 | 13 56 8  | 11 11.2   | 16 | 3.4 |      |       | -1.3(-.4) |           |              |      |              | 350   | 67    | 030000000 |     |
| 16655 | 13 56 18 | 50 50.1   | 20 | 2.2 |      |       | -1.4(-.4) | -3.0(-.5) |              |      |              | 102   | 56    | 610070000 |     |
| 16665 | 13 55 31 | -5 20.1   | 15 | 4.2 |      |       | -1.2(-.3) |           |              |      |              | 332   | 53    | 160070000 |     |
| 16675 | 13 56 55 | -18 41.5  | 10 | 3.9 |      |       | -1.4(-.3) |           |              |      |              | 325   | 41    | +00070070 |     |
| 16685 | 13 57 4  | 40 32.1   | 21 | 2.9 |      |       | 1.4(-.3)  |           | 40252        |      | SVS 7083     | 80    | 71    | 010000000 |     |
| 49245 | 13 57 59 | 38 5.4    | 20 | 3.0 |      |       | 1.1(-.3)  |           |              |      |              | 74    | 72    | 010000000 |     |
| 49255 | 13 58 0  | -10 21.0  | 16 | 3.4 |      |       | -1.7(-.4) |           |              |      |              | 329   | 49    | 700070020 |     |
| 16705 | 13 59 6  | 62 13.0   | 32 | 4.2 |      |       | -1.1(-.4) |           |              |      |              | 110   | 53    | 200070000 |     |
| 16715 | 13 58 10 | 39 15.7   | 21 | 3.0 |      |       | 1.4(-.3)  |           |              |      |              | 77    | 71    | 010070000 |     |
| 16725 | 13 58 51 | 39 43.6   | 21 | 2.9 |      |       | 1.4(-.3)  |           |              |      |              | 78    | 71    | 010070000 |     |
| 49265 | 14 0 17  | -7 20.0   | 11 | 2.7 |      |       | -2.9(-.4) |           |              |      |              | 332   | 51    | 400070000 |     |
| 49275 | 14 2 53  | -35 14.6  | 11 | 2.3 |      |       | -1.6(-.4) | -8.2(-.6) | -30200E      |      | AO CEN       | 320   | 25    | +00070020 |     |
| 49285 | 14 3 58  | 17 9.9    | 16 | 3.3 |      |       | 1.3(-.3)  |           | 20268        |      | DO 14859. EO | 6     | 70    | 010070000 |     |
| 16785 | 14 4 44  | -7 44.4   | 12 | 4.0 |      |       | 1.0(-.3)  |           |              |      |              | 333   | 50    | +00070020 |     |
| 16795 | 14 4 48  | 20 38.0   | 16 | 3.2 |      |       | 1.4(-.3)  |           |              |      |              | 16    | 71    | 010000000 |     |
| 49295 | 14 5 30  | -60 55.7  | 31 | 2.3 |      |       | -3.1(-.4) |           |              |      |              | 312   | 0     | 000070040 |     |
| 49305 | 14 5 44  | -8 37.7   | 11 | 2.7 |      |       | -3.3(-.5) |           | -10296       |      |              | 333   | 49    | 100070040 |     |
| 16815 | 14 5 58  | 24 12.1   | 17 | 3.1 |      |       | 1.7(-.4)  |           |              |      |              | 27    | 72    | 010000000 |     |
| 49315 | 14 6 8   | -18 56.2  | 10 | 3.9 |      |       | 1.5(-.3)  |           | -20264       |      | QC 19088     | 327   | 40    | +00070020 |     |
| 49325 | 14 6 33  | 49 41.4   | 24 | 2.4 |      |       | 1.8(-.4)  |           | 50237        | 5300 | 13 800       | 95    | 63    | 010000000 |     |
| 16825 | 14 6 40  | -14 37.1  | 11 | 3.9 |      |       | -1.8(-.4) |           |              |      |              | 330   | 44    | 700070000 |     |
| 49335 | 14 7 26  | -30 35.4  | 19 | 3.1 |      |       | -3.3(-.5) |           |              |      |              | 322   | 29    | 700070040 |     |
| 16935 | 14 7 33  | -15 8.3   | 14 | 4.1 |      |       | -3.2(-.4) |           |              |      |              | 330   | 43    | 400070000 |     |
| 49345 | 14 7 44  | -18 1.9   | 17 | 3.4 |      |       | -1.7(-.4) |           |              |      |              | 327   | 40    | +00070020 |     |
| 49355 | 14 8 4   | -4 11.5   | 8  | 2.2 |      |       | -2.7(-.5) |           |              |      |              | 337   | 53    | 700070040 |     |
| 49365 | 14 12 22 | -12 43.7  | 16 | 3.6 |      |       | -3.9(-.5) |           | -10303       |      | AN VIR       | 332   | 45    | 700070040 |     |
| 49375 | 14 13 18 | -14 27.3  | 11 | 2.7 |      |       | 1.0(-.3)  | -1.6(-.5) |              |      |              | 332   | 43    | 100070020 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)    | M(1)     | M(20)    | M(27)    | INC    | BS   | COMMENTS   | L II | B II | OBS.      | LOG |
|-------|----------|-----------|----|-----|---------|----------|----------|----------|--------|------|------------|------|------|-----------|-----|
| 49385 | 14 16 4  | -61 11.0  | 16 | 2.2 |         |          |          |          |        |      | RCW 85     | 313  | 38   | 000000000 |     |
| 49395 | 14 16 42 | -20 25.9  | 12 | 4.0 | 1.4(.3) | -1.1(.7) | -2.5(.5) |          |        |      | IC 1063    | 329  | 38   | 100000000 |     |
| 49395 | 14 18 13 | 5 42.0    | 10 | 2.7 |         | -1.1(.8) | -2.9(.5) |          | 241    |      | DO 3479    | 351  | 60   | 0+0000000 |     |
| 49405 | 14 18 56 | -2 5.8    | 13 | 4.0 | 1.3(.4) |          | 3.6(.4)  |          |        |      | S 800      | 343  | 53   | 000010000 |     |
| 17025 | 14 20 40 | -1 44.6   | 13 | 4.0 |         |          |          |          |        |      | R CAM      | 344  | 53   | 000040000 |     |
| 49415 | 14 21 25 | 54 9      | 26 | 2.3 | 1.4(.4) |          | -3.0(.5) |          |        |      | DO 14946   | 311  | 59   | 010000000 |     |
| 17055 | 14 21 52 | 84 3.8    | 89 | 1.8 | 1.7(.4) | -1.6(.4) | -2.8(.5) |          | 30256  |      |            | 39   | 69   | 010000000 |     |
| 49425 | 14 21 56 | -69 39.1  | 46 | 2.9 | 1.5(.3) |          |          |          |        |      |            | 55   | 69   | 010000000 |     |
| 17075 | 14 22 2  | 27 39.2   | 18 | 3.2 |         |          |          |          |        |      |            |      |      |           |     |
| 17075 | 14 22 38 | 33 7.4    | 19 | 3.1 |         |          |          |          |        |      |            |      |      |           |     |
| 17095 | 14 24 38 | -24 59.0  | 11 | 3.9 |         |          | -3.3(.4) |          |        |      |            | 329  | 33   | 700000000 |     |
| 49445 | 14 26 2  | -56 35.3  | 27 | 2.3 |         |          | -3.5(.8) |          |        |      |            | 316  | 4    | 000000000 |     |
| 49455 | 14 26 16 | -53 57.5  | 25 | 2.1 |         |          | -3.6(.5) |          |        |      |            | 317  | 6    | 000000000 |     |
| 49465 | 14 26 45 | 26 6.6    | 18 | 3.3 | 1.4(.4) |          |          |          | 30258  |      | DO 14972   | 35   | 58   | 010000000 |     |
| 49475 | 14 27 50 | 39 4.5    | 21 | 3.0 | 1.3(.3) |          |          |          | 40257  |      | GAM 800.E0 | 69   | 68   | 010000000 |     |
| 49485 | 14 29 45 | 38 29.7   | 21 | 3.0 | 1.7(.3) |          |          |          | 40258  | 9438 |            | 358  | 59   | 010000000 |     |
| 17175 | 14 30 23 | 7 19.6    | 15 | 4.2 |         |          |          |          |        |      |            | 338  | 41   | 700000000 |     |
| 49495 | 14 34 23 | -14 17.5  | 10 | 2.6 | 1.8(.4) | -1.1(.4) |          |          | 30250  |      | R 800      | 38   | 67   | 010000000 |     |
| 49505 | 14 34 48 | 26 55.7   | 18 | 3.2 | 1.4(.4) |          |          |          | 246    |      | CR VIR     | 355  | 55   | 070010000 |     |
| 49515 | 14 35 32 | 3 40.3    | 14 | 4.2 |         |          |          |          |        |      |            |      |      |           |     |
| 49525 | 14 35 48 | -3 20.4   | 13 | 4.0 | 1.8(.3) |          | -3.0(.5) | -6.3(.8) | 247    |      | DO 3536    | 347  | 50   | 070010000 |     |
| 49535 | 14 36 38 | -10 23.9  | 16 | 3.6 |         |          |          |          |        |      |            | 341  | 44   | 700010000 |     |
| 49545 | 14 38 16 | -25 8.3   | 12 | 3.9 | 1.9(.4) |          |          |          | -30223 |      |            | 332  | 31   | 700010000 |     |
| 49555 | 14 38 16 | 15 42.1   | 15 | 3.7 |         | -2.1(.4) |          |          |        |      |            | 14   | 62   | 0+0000000 |     |
| 49555 | 14 39 6  | -28 47.7  | 12 | 3.9 | 1.6(.4) |          |          |          | -30224 |      |            | 330  | 28   | 700010000 |     |
| 17215 | 14 39 19 | -26 3.7   | 8  | 2.8 |         | -1.8(.5) |          |          |        |      |            | 332  | 30   | 200000000 |     |
| 49575 | 14 39 31 | -3 21.5   | 13 | 4.0 | 1.4(.4) |          |          |          | 248    |      | DO 3549    | 348  | 49   | 0+0000000 |     |
| 17235 | 14 40 32 | -26 35.0  | 12 | 3.9 |         |          | -3.2(.4) |          |        |      |            | 332  | 30   | 700000000 |     |
| 49585 | 14 40 49 | -48 55.2  | 22 | 2.1 |         |          | -3.8(.4) |          |        |      |            | 321  | 10   | 000000000 |     |
| 49595 | 14 42 21 | -37 25.5  | 11 | 2.6 |         |          | -4.2(.4) |          |        |      |            | 327  | 20   | 400000000 |     |
| 17275 | 14 43 2  | -25 58.0  | 12 | 3.9 |         |          | -3.3(.4) |          |        |      |            | 333  | 30   | 700000000 |     |
| 17295 | 14 43 53 | -20 20.7  | 12 | 4.0 |         | -1.0(.4) |          |          |        |      |            | 336  | 35   | 200000000 |     |
| 49605 | 14 44 20 | 7 28.4    | 15 | 4.1 | 1.6(.4) |          |          |          | 10282  |      | DO 3568    | 359  | 55   | 010000000 |     |
| 49615 | 14 44 30 | 5 3.7     | 15 | 3.5 |         |          |          |          | 10283  |      | RG VIR     | 354  | 51   | 0+0000000 |     |
| 17305 | 14 44 33 | 0 22.2    | 14 | 4.0 |         | -1.0(.4) |          |          |        |      |            | 354  | 41   | 700000000 |     |
| 17315 | 14 44 43 | -12 29.3  | 12 | 4.0 |         | -1.6(.3) |          |          | -30270 | 9521 | GC 19936   | 335  | 31   | 700010000 |     |
| 49625 | 14 45 29 | -24 2.5   | 12 | 3.9 | 1.6(.4) |          |          |          |        |      |            | 325  | 14   | 000000000 |     |
| 49635 | 14 47 35 | -43 21.3  | 21 | 2.8 | 1.6(.4) | -1.7(.4) | -2.3(.6) |          | 40262  | 9541 | GC 19982   | 62   | 63   | 010000000 |     |
| 49645 | 14 48 25 | 37 28.4   | 20 | 3.0 | 1.1(.3) |          |          |          |        |      | SVS 2212   | 333  | 27   | 700010000 |     |
| 17375 | 14 49 53 | -28 31.7  | 12 | 3.9 |         |          |          |          |        |      |            |      |      |           |     |
| 17395 | 14 50 37 | 21 33.1   | 17 | 3.4 | 1.1(.3) |          |          |          |        |      |            | 28   | 62   | 010000000 |     |
| 17415 | 14 52 12 | -2 28.6   | 14 | 4.0 |         |          | -3.9(.4) |          | -20274 |      | EG L18     | 353  | 48   | 070000000 |     |
| 49655 | 14 52 25 | -21 49.0  | 10 | 3.9 | 1.4(.3) |          |          |          |        |      |            | 337  | 32   | 100000000 |     |
| 17425 | 14 53 41 | -25 12.9  | 10 | 3.9 | 1.2(.3) |          |          |          |        |      |            | 336  | 29   | 100000000 |     |
| 49665 | 14 53 45 | 6 2.7     | 10 | 2.4 |         | -1.7(.4) |          |          |        |      |            | 345  | 41   | 700000000 |     |
| 49675 | 14 54 5  | -11 10.1  | 13 | 3.9 |         |          | -2.9(.4) |          | -10307 | 9564 | X12 L18    | 345  | 41   | 700000000 |     |
| 49685 | 14 54 34 | -59 48.4  | 32 | 3.1 |         | -1.4(.4) | -3.1(.5) |          | 80029  |      | DO 34808   | 318  | 41   | 000000000 |     |
| 49695 | 14 54 43 | 75 1.2    | 53 | 3.8 | 1.8(.4) |          | -2.9(.5) |          |        |      |            | 113  | 40   | 700000000 |     |
| 49705 | 14 54 52 | -27 52.2  | 11 | 2.5 | 1.8(.4) | -1.2(.4) | -2.9(.5) |          |        |      |            | 334  | 27   | 700000000 |     |
| 49715 | 14 54 59 | -28 59.2  | 11 | 2.5 |         |          | -2.9(.5) |          |        |      |            | 334  | 26   | 700000000 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)     | M(11)  | M(20)    | M(27)    | INC      | BS   | COMMENTS     | L II | B II | ONS | LOC       |
|-------|----------|-----------|----|-----|----------|--------|----------|----------|----------|------|--------------|------|------|-----|-----------|
| 4972S | 14 57 18 | -58 45.1  | 31 | 3.0 |          |        | -2.7(.5) | -3.3(.6) | 257      | 5590 | DO 3619      | R    | 319  | -0  | 00000050  |
| 4973S | 14 58 25 | -2 31.2   | 13 | 3.9 | 9(.3)    |        |          |          | -2078    |      |              |      | 354  | 47  | 0+0010000 |
| 1747S | 14 58 41 | -18 36.3  | 4  | 2.7 | 1.6(.3)  |        |          |          |          |      |              |      | 341  | 34  | 107010000 |
| 4974S | 14 59 16 | 0 3.5     | 14 | 4.0 | 1.2(.4)  |        |          |          | 258      | 5594 | DO 3622      |      | 357  | 48  | 070010000 |
| 1749S | 15 0 16  | 2 18.9    | 8  | 2.3 | 1.7(.3)  | -4(.8) |          |          | 259      | 8601 | DO 3622      |      | 0    | 50  | 030010000 |
| 4975S | 15 0 20  | 31 52.1   | 19 | 3.2 | 1.7(.4)  |        |          |          | 30267    |      | SVS 7168     |      | 50   | 61  | 010000000 |
| 4976S | 15 2 11  | -7 50.7   | 13 | 3.9 | 1.7(.5)  |        |          |          | -10311   |      |              |      | 350  | 42  | 070010000 |
| 4977S | 15 2 32  | 27 10.1   | 18 | 3.4 | 1.4(.4)  |        |          |          | 30268    | 8416 | PSI 800      |      | 40   | 60  | 010000000 |
| 4978S | 15 3 34  | -57 33.7  | 16 | 2.7 | 1.6(.5)  |        |          |          | -20279   | 8422 | RCW 88       | R    | 320  | 0   | 000000040 |
| 4979S | 15 3 55  | -16 2.8   | 10 | 3.9 |          |        |          |          |          |      | NUJ L18      |      | 344  | 36  | 100070000 |
| 4980S | 15 5 43  | -68 58.1  | 46 | 3.4 |          |        |          |          |          |      |              |      | 315  | -10 | 000000040 |
| 4981S | 15 5 48  | -58 28.2  | 31 | 3.2 |          |        |          |          |          |      |              |      | 320  | -0  | 000000060 |
| 4982S | 15 6 8   | -58 28.2  | 31 | 3.2 |          |        |          |          | 260      |      | DO 3645      | R    | 358  | 47  | 010070000 |
| 4983S | 15 7 38  | 65 57.9   | 26 | 3.9 | 1.1(.3)  |        |          |          | 70127    |      | DO 34867, EO |      | 104  | 46  | 100000000 |
| 4984S | 15 8 5   | 11 51.8   | 16 | 3.6 | 1.4(.4)  |        |          |          | 10286    |      | DO 3653      |      | 14   | 54  | 010070000 |
| 4985S | 15 8 10  | -69 53.1  | 48 | 3.5 |          |        |          |          |          |      | X TRA        |      | 315  | -10 | 000000020 |
| 4986S | 15 9 48  | 22 30.2   | 18 | 3.5 | 1.9(.4)  |        |          |          | 20278    |      | DO 15169     |      | 32   | 58  | 010000000 |
| 1755S | 15 12 12 | 15 20.3   | 17 | 4.0 |          |        |          |          |          |      |              |      | 20   | 55  | 070040070 |
| 1759S | 15 14 13 | -12 33.0  | 8  | 2.7 | 1.5(.3)  |        |          |          | -3.8(.4) |      |              |      | 339  | 37  | 100500070 |
| 4987S | 15 15 24 | -27 43.2  | 9  | 3.7 | 1.3(.3)  |        |          |          | -30232   |      | AR L18       |      | 339  | 25  | 100000000 |
| 4988S | 15 15 44 | -0 16.6   | 9  | 2.2 |          |        |          |          |          |      |              |      | 1    | 45  | 030070070 |
| 4989S | 15 16 33 | 72 2.2    | 51 | 3.1 | 2.1(.4)  | -8(.4) |          |          | 263      | 5690 | QC 20570     |      | 109  | 41  | 710070000 |
| 1762S | 15 16 39 | 16 46.4   | 11 | 2.7 | 1.6(.4)  |        |          |          | 70126    | 5714 | 11 UMI, EO   |      | 24   | 54  | 070000070 |
| 4990S | 15 19 17 | 31 36.0   | 16 | 3.8 |          |        |          |          |          |      |              |      | 50   | 57  | 002000020 |
| 4991S | 15 20 14 | -14 54.7  | 10 | 3.7 | 1.7(.4)  |        |          |          | 30272    |      | S CRB        |      | 349  | 34  | 100070000 |
| 4992S | 15 20 49 | -9 32.0   | 10 | 2.7 | 1.5(.3)  |        |          |          | -10319   |      | QC 20683     |      | 353  | 38  | 100070000 |
| 4993S | 15 21 59 | 15 38.3   | 11 | 2.6 |          |        |          |          |          |      |              |      | 23   | 53  | 020070020 |
| 4994S | 15 22 6  | -26 32.5  | 8  | 3.7 | 1.8(.4)  |        |          |          | -30235   |      | IC 1117      |      | 341  | 25  | 100000000 |
| 1768S | 15 22 10 | 9 5.1     | 15 | 3.9 |          |        |          |          |          |      |              |      | 14   | 50  | 070000070 |
| 4995S | 15 24 2  | 17 8.5    | 15 | 3.9 | -1.2(.4) |        |          |          |          |      |              |      | 25   | 53  | 000070040 |
| 4996S | 15 24 53 | -37 8.8   | 11 | 2.9 |          |        |          |          |          |      |              |      | 334  | 16  | 100000001 |
| 4997S | 15 25 15 | 25 15.4   | 18 | 3.4 | 1.5(.4)  |        |          |          | -3021E   |      |              |      | 39   | 55  | 010000000 |
| 4998S | 15 25 35 | -18 36.5  | 13 | 3.8 | 1.6(.4)  |        |          |          | 30274    | 5748 | DO 18290     |      | 348  | 32  | 700010000 |
| 4999S | 15 26 9  | -11 44.3  | 9  | 3.7 | 1.4(.3)  |        |          |          | -30287   | 5743 | 32 L18       |      | 353  | 35  | 170070000 |
| 5000S | 15 27 11 | 17 44.2   | 16 | 3.9 |          |        |          |          |          |      |              |      | 27   | 52  | 000070040 |
| 5001S | 15 27 27 | -12 44.4  | 13 | 3.8 |          |        |          |          |          |      | SVS 2352     |      | 352  | 34  | 700040040 |
| 1774S | 15 27 48 | -13 13.4  | 10 | 2.7 | 1.5(.3)  |        |          |          |          |      |              |      | 352  | 34  | 700040040 |
| 1775S | 15 28 26 | -22 45.9  | 8  | 3.6 | 1.3(.3)  |        |          |          |          |      |              |      | 344  | 27  | 100070000 |
| 5002S | 15 28 31 | -70 18.2  | 49 | 3.7 |          |        |          |          |          |      |              |      | 316  | -12 | 000000020 |
| 1778S | 15 30 0  | -16 53.8  | 8  | 2.6 | -1.7(.4) |        |          |          |          |      |              |      | 349  | 31  | 200040040 |
| 1779S | 15 30 19 | 13 42.6   | 17 | 4.0 |          |        |          |          |          |      |              |      | 21   | 50  | 070010000 |
| 5003S | 15 30 21 | -27 2.3   | 8  | 3.6 | 1.7(.3)  |        |          |          | -30236   |      | SV L18       |      | 342  | 23  | 100000000 |
| 5004S | 15 30 39 | -27 28.5  | 8  | 2.6 | 1.2(.3)  |        |          |          | -3023E   |      |              |      | 335  | 15  | 100000000 |
| 1781S | 15 31 23 | -18 21.8  | 8  | 3.6 | 1.0(.4)  |        |          |          |          |      |              |      | 348  | 30  | 100070000 |
| 5005S | 15 31 38 | -27 52.4  | 7  | 3.6 | 1.6(.3)  |        |          |          | -30237   | 5778 | 36 L18       |      | 342  | 22  | 100000000 |
| 5006S | 15 32 21 | -23 43.8  | 7  | 3.6 | 1.7(.5)  |        |          |          |          |      | TU L18       |      | 345  | 25  | 100070000 |
| 5007S | 15 32 45 | -14 34.6  | 9  | 3.6 | 2.0(.3)  |        |          |          | -10323   | 5787 | GAM L18      |      | 352  | 32  | 100070000 |
| 5008S | 15 33 42 | -27 38.3  | 8  | 3.6 | 1.6(.4)  |        |          |          | -3022E   |      | SN LUP, EO   |      | 336  | 14  | 100000000 |
| 1791S | 15 36 9  | -8 24.0   | 13 | 3.8 | 1.4(.4)  |        |          |          |          |      |              |      | 358  | 36  | 070010000 |
| 5009S | 15 36 46 | 33 2.7    | 16 | 3.9 |          |        |          |          | -3.0(.4) |      |              |      | 52   | 54  | 000000020 |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA  | ED  | M(4)      | M(11)     | M(20)     | M(37) | INC     | BS   | COMMENTS    | L I I | S I I | OBS.      | LOG |
|-------|----------|-----------|-----|-----|-----------|-----------|-----------|-------|---------|------|-------------|-------|-------|-----------|-----|
| 50105 | 15 36 57 | 10 47.7   | 15  | 3.7 | 1.7(-.4)  |           |           |       | 10292   |      | DO 3798     | 19    | 47    | 010070000 |     |
| 50115 | 15 41 40 | 2 36.4    | 15  | 3.8 | 1.4(-.4)  |           |           |       | 270     |      | DO 3813     | 10    | 42    | 010070000 |     |
| 50125 | 15 42 21 | 20 2.4    | 15  | 3.9 |           |           | -3.5(-.5) |       |         |      |             | 32    | 50    | 000070040 |     |
| 17955 | 15 44 43 | 11 24.4   | 16  | 3.8 |           | -1.4(-.4) |           |       |         |      |             | 21    | 46    | 000020070 |     |
| 17975 | 15 46 20 | 5 1.1     | 15  | 3.8 |           | -1.1(-.4) |           |       |         |      |             | 13    | 42    | 0200+0070 |     |
| 50135 | 15 47 49 | -12 38.9  | 10  | 3.8 | 1.6(-.3)  |           |           |       |         |      | SVS 2476.E0 | 356   | 31    | 170070000 |     |
| 50145 | 15 47 54 | -24 55.8  | 9   | 3.7 | 1.8(-.4)  | -1.3(-.4) |           |       |         |      | FO LUP      | 340   | 15    | 300000007 |     |
| 50155 | 15 48 19 | -31 33.8  | 10  | 1.9 |           | -1.5(-.5) | -3.5(-.5) |       | -30332E |      |             | 342   | 17    | 600000004 |     |
| 50165 | 15 48 28 | -37 58.4  | 9   | 3.7 | 1.4(-.4)  |           |           |       | -30333E |      |             | 338   | 12    | 100000000 |     |
| 50175 | 15 50 2  | -36 27.7  | 9   | 3.7 | 1.9(-.5)  |           |           |       |         |      |             | 339   | 13    | 100000000 |     |
| 50185 | 15 50 53 | -18 50.9  | 10  | 2.7 | 1.1(-.4)  |           | -3.9(-.5) |       | -20297  |      |             | 352   | 26    | 71004000+ |     |
| 50195 | 15 51 42 | -20 25.8  | 14  | 3.7 | 1.5(-.4)  |           |           |       | -20298  |      |             | 351   | 25    | 700010000 |     |
| 50205 | 15 51 52 | -20 44.7  | 14  | 3.7 |           | -1.3(-.4) |           |       | -20298  |      |             | 350   | 25    | 700020007 |     |
| 50215 | 15 52 29 | -20 25.9  | 18  | 3.8 | 1.2(-.4)  |           |           |       | 20288   | 8924 | DO 15359    | 34    | 48    | 000010000 |     |
| 18085 | 15 52 36 | 5 5.2     | 15  | 3.8 |           | -1.5(-.4) |           |       | -10327  |      | SW LIM      | 14    | 41    | 0200+0070 |     |
| 18105 | 15 52 45 | -12 40.8  | 7   | 2.2 | 1.8(-.4)  |           |           |       |         |      |             | 357   | 30    | 110010000 |     |
| 18125 | 15 52 56 | -8 5.1    | 13  | 3.8 | -1.2(-.4) |           |           |       |         |      |             | 1     | 23    | 0200+0070 |     |
| 18135 | 15 54 8  | -18 32.1  | 8   | 2.7 | 1.6(-.4)  | -3.3(-.4) |           |       |         |      | SVS 2507.E0 | 353   | 26    | 540070007 |     |
| 50225 | 15 54 11 | -36 3.6   | 9   | 3.7 | 1.5(-.4)  | -1.0(-.5) | -2.6(-.7) |       | -30336E | 8929 |             | 340   | 13    | 700000000 |     |
| 50235 | 15 54 12 | -34 14.5  | 9   | 3.7 | 1.7(-.4)  |           |           |       | -30335E |      |             | 341   | 14    | 100000000 |     |
| 18155 | 15 54 46 | -29 8.1   | 10  | 3.8 | 1.4(-.3)  |           |           |       |         |      | SVS 2513    | 345   | 18    | 100000000 |     |
| 50245 | 15 57 15 | -22 33.8  | 9   | 3.8 | 2.1(-.5)  |           |           |       | -20303  | 8953 | DEL SCO     | 350   | 22    | 100000000 |     |
| 50255 | 15 58 15 | 25 16.5   | 14  | 3.9 |           | -3.0(-.5) | -6.4(-.6) |       |         |      |             | 41    | 48    | 000070050 |     |
| 50265 | 16 0 24  | -25 46.4  | 10  | 3.8 | 1.9(-.5)  |           |           |       | -30252  | 8969 | GC 21556    | 348   | 20    | 100000000 |     |
| 18205 | 16 1 35  | 13 1.6    | 11  | 2.5 | 1.4(-.4)  | -7(-.4)   |           |       |         |      | IC 1168     | 28    | 44    | 030020070 |     |
| 50275 | 16 1 56  | 83 41.0   | 210 | 3.7 | 1.6(-.3)  |           |           |       | -30241E |      | SVS 2641    | 119   | 30    | 70717000  |     |
| 50285 | 16 3 9   | -37 49.9  | 10  | 3.8 | 1.6(-.4)  |           |           |       |         |      | DO 3950     | 340   | 10    | 100000000 |     |
| 50295 | 16 4 24  | -3 43.6   | 8   | 2.2 | 1.5(-.4)  | -1.7(-.5) |           |       | 276     |      | SVS 2564    | 7     | 34    | 010010020 |     |
| 50305 | 16 4 50  | -4 57.3   | 14  | 3.9 | 1.4(-.4)  |           |           |       |         |      | IC 4589     | 6     | 33    | 010070000 |     |
| 50315 | 16 5 7   | -6 13.2   | 14  | 4.0 | 1.5(-.4)  |           |           |       |         |      |             | 5     | 32    | 010070000 |     |
| 18245 | 16 5 55  | -0 54.2   | 15  | 3.7 | 1.7(-.3)  |           |           |       |         |      |             | 10    | 35    | 070010000 |     |
| 18275 | 16 6 40  | -3 1.7    | 14  | 3.9 | 1.2(-.3)  |           |           |       | -30256  | 8017 | 3C 21749    | 8     | 34    | 0100+0000 |     |
| 50325 | 16 7 48  | -29 15.0  | 11  | 3.8 | 1.5(-.4)  |           |           |       |         |      |             | 347   | 16    | 100000000 |     |
| 50335 | 16 7 55  | 10 44.1   | 14  | 4.0 |           | -3.6(-.4) |           |       |         |      |             | 23    | 41    | 000070040 |     |
| 18335 | 16 9 28  | 2 51.6    | 9   | 2.3 |           | -1.1(-.4) |           |       |         |      | VV HER      | 16    | 37    | 0200+0070 |     |
| 50345 | 16 10 16 | 25 3.3    | 18  | 3.4 | 1.9(-.4)  |           |           |       | 30284   |      | BR SCO      | 42    | 45    | 000010000 |     |
| 50355 | 16 10 32 | -10 12.2  | 12  | 4.0 | 1.8(-.5)  |           |           |       | -10333  | 8047 | 9 HER       | 3     | 28    | 170070000 |     |
| 50365 | 16 10 55 | 5 5.8     | 15  | 3.7 | 1.9(-.4)  |           |           |       | 10304   |      |             | 18    | 37    | 000010000 |     |
| 18365 | 16 11 31 | -36 40.3  | 11  | 3.8 |           | -3.8(-.4) |           |       |         |      | BE OPH      | 342   | 10    | 400000000 |     |
| 50375 | 16 12 48 | -6 28.6   | 14  | 4.0 | 1.3(-.3)  |           |           |       |         |      |             | 6     | 30    | 010070000 |     |
| 50385 | 16 12 54 | 11 31.4   | 14  | 4.0 | -1.4(-.4) |           |           |       | -30259  |      | IC 1206     | 25    | 40    | 000070020 |     |
| 50395 | 16 15 42 | -28 34.7  | 11  | 3.9 | 1.3(-.5)  |           | -3.4(-.5) |       |         |      |             | 349   | 15    | 100000000 |     |
| 50405 | 16 15 55 | 25 59.3   | 14  | 4.0 |           |           |           |       |         |      |             | 44    | 44    | 000070040 |     |
| 18395 | 16 16 4  | -1 37.6   | 14  | 3.6 |           | -9(-.4)   |           |       | -10336  | 8078 | GC 21834    | 11    | 32    | 070020070 |     |
| 18405 | 16 16 7  | -14 46.4  | 9   | 2.7 | 1.7(-.4)  |           |           |       |         |      |             | 0     | 24    | 170010000 |     |
| 18425 | 16 16 47 | -17 44.5  | 11  | 2.9 | 1.5(-.3)  |           |           |       | -20310  |      |             | 357   | 22    | 170000000 |     |
| 50415 | 16 16 57 | -22 9.8   | 13  | 3.9 | 1.2(-.4)  |           |           |       |         |      |             | 354   | 19    | 710000000 |     |
| 50425 | 16 18 46 | 81 35.9   | 87  | 3.9 |           | -3.1(-.4) |           |       |         |      |             | 115   | 32    | 400770000 |     |
| 50435 | 16 19 31 | 24 29.9   | 14  | 4.0 | -2.8(-.4) |           |           |       |         |      |             | 42    | 43    | 0000+0020 |     |
| 18495 | 16 19 46 | 64 11.7   | 37  | 2.8 |           | -3.4(-.4) |           |       |         |      |             | 96    | 40    | +00040000 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA  | ED  | M(4)    | M(11)    | M(20)    | M(27)    | IRC      | BS     | COMMENTS    | L 11 | B 11 | OBS.      | LOG |
|-------|----------|-----------|-----|-----|---------|----------|----------|----------|----------|--------|-------------|------|------|-----------|-----|
| 50445 | 16 21 1  | 30 54.7   | 12  | 2.6 |         | -1.0(.5) |          |          | 30290    |        | RY CRB      | 91   | 44   | 000020020 |     |
| 50455 | 16 24 4  | -31 10.3  | 11  | 3.9 | 1.4(.3) |          |          |          | -30264   |        | WV SCO      | 348  | 12   | 100000000 |     |
| 50465 | 16 24 6  | -9 41.6   | 13  | 4.1 | 1.4(.3) |          |          |          |          |        | V705 OPH    | 5    | 26   | 170070000 |     |
| 50475 | 16 24 11 | -2 30.3   | 13  | 3.9 | 2.0(.4) |          |          |          | 284      |        | V707 OPH    | 12   | 30   | 010070000 |     |
| 50485 | 16 24 37 | -35 1.3   | 8   | 2.0 | 1.8(.3) |          |          |          | -30245E  |        |             | 345  | 8    | 300000000 |     |
| 50495 | 16 25 7  | 3 0.0     | 15  | 4.0 | 1.5(.4) |          |          |          | 285      |        | DO 4057 EO  | 18   | 33   | 010070000 |     |
| 50505 | 16 25 31 | -35 34.2  | 11  | 3.9 | 1.5(.3) |          |          |          | -30250E  |        | Y SCO       | 345  | 9    | 100000000 |     |
| 50515 | 16 26 33 | -19 12.7  | 13  | 3.9 | 1.1(.3) |          |          |          | -20317   |        | SVS 2714 R  | 358  | 20   | 100000000 |     |
| 50525 | 16 26 50 | -3 26.6   | 13  | 3.9 | 1.8(.3) |          |          |          |          |        | DO 4069     | 11   | 29   | 010070000 |     |
| 50535 | 16 27 15 | 0 1.8     | 14  | 3.6 | 1.8(.4) |          |          |          | 287      |        |             | 15   | 31   | 070010000 |     |
| 50545 | 16 28 31 | -10 26.7  | 13  | 4.1 | 1.4(.3) |          |          |          |          |        |             | 5    | 25   | 170070000 |     |
| 18555 | 16 29 54 | 84 39.6   | 27  | 2.3 |         |          | -3.1(.4) |          |          |        |             | 66   | 42   | 000040000 |     |
| 18665 | 16 29 59 | -16 5.6   | 12  | 4.0 | 1.8(.3) |          |          |          |          |        |             | 1    | 21   | 170000000 |     |
| 18675 | 16 30 2  | 50 56.0   | 24  | 2.3 |         |          | -3.2(.4) |          |          |        |             | 78   | 43   | 000040000 |     |
| 50555 | 16 30 30 | 11 32.6   | 16  | 3.6 | 1.0(.3) |          |          |          | 10307    | 6189   | 29 HER      | 27   | 36   | 000030070 |     |
| 50565 | 16 32 25 | -24 46.1  | 12  | 3.9 | 1.7(.4) |          |          |          | -20320   |        | KV SCO      | 354  | 15   | 100000000 |     |
| 50575 | 16 33 48 | -27 56.7  | 12  | 3.9 | 1.3(.4) |          |          |          |          |        | RCM 128     | 352  | 13   | 100000000 |     |
| 50585 | 16 34 1  | 5 2.5     | 14  | 4.0 | 1.9(.4) |          |          |          | 10308    |        | DO 4100     | 21   | 32   | 010070000 |     |
| 50595 | 16 34 18 | 5 6.1     | 15  | 3.5 | 2.0(.5) |          |          |          | 10308    |        | DO 4100     | 21   | 32   | 000010000 |     |
| 50605 | 16 34 27 | -10 26.3  | 8   | 2.1 | 1.9(.4) |          | -3.2(.5) |          | -10343   | 6176   | ZET OPH     | 6    | 24   | 4+0010006 |     |
| 50615 | 16 34 45 | -35 19.5  | 12  | 3.9 | 2.1(.4) |          |          |          | -30255E  |        | EO          | 346  | 8    | 100000000 |     |
| 18715 | 16 37 18 | -33 56.5  | 12  | 3.9 | 1.3(.3) |          |          |          |          |        |             | 348  | 8    | 100000000 |     |
| 7628  | 16 37 39 | -20 21.7  | 12  | 3.9 | 1.3(.4) |          |          |          | -20323   |        | GC 22436    | 358  | 17   | 1+0000000 |     |
| 18815 | 16 38 20 | -11 42.7  | 9   | 2.8 | 1.7(.3) |          |          |          | -10345   |        | GC 22449    | 6    | 22   | 100700000 |     |
| 18825 | 16 38 43 | -17 41.4  | 9   | 2.8 | 1.5(.3) |          |          |          | -20325   | 6186   |             | 1    | 18   | 100000000 |     |
| 50635 | 16 39 48 | 16 49.0   | 16  | 3.4 |         | -6(.4)   |          |          |          |        | EO          | 35   | 26   | 030020070 |     |
| 50645 | 16 41 57 | -13 4.4   | 13  | 4.0 | 1.9(.4) |          |          |          | -10346   |        |             | 4    | 20   | 170000000 |     |
| 50655 | 16 43 24 | -16 50.9  | 10  | 2.6 | 1.5(.4) |          |          |          |          |        |             | 2    | 16   | 170000000 |     |
| 18925 | 16 45 51 | -28 8.8   | 13  | 4.0 | 1.1(.3) |          |          |          | -8.6(.7) | -20329 |             | 354  | 11   | 100000000 |     |
| 18975 | 16 47 18 | -13 36.5  | 13  | 4.0 | 1.1(.3) |          | -2.3(.3) |          |          |        |             | 6    | 19   | 2+0000007 |     |
| 19015 | 16 48 33 | -23 30.6  | 13  | 4.0 |         |          | -3.7(.4) |          |          |        |             | 357  | 13   | 470000000 |     |
| 50665 | 16 48 58 | -7 3.1    | 14  | 4.2 | 1.8(.3) |          |          |          |          |        |             | 13   | 23   | 370070007 |     |
| 50675 | 16 50 14 | -21 36.5  | 12  | 3.9 | 1.8(.3) |          |          |          | -20335   |        |             | 359  | 14   | 730000000 |     |
| 50685 | 16 50 20 | 8 27.1    | 11  | 3.6 | 1.7(.4) |          |          |          | 10314    |        | RA OPH      | 24   | 29   | 010070000 |     |
| 19075 | 16 51 31 | -6 36.9   | 9   | 2.7 |         | -8(.4)   |          |          | -10349   |        |             | 12   | 22   | 720070007 |     |
| 50695 | 16 52 3  | -6 7.9    | 14  | 4.2 | 1.8(.3) |          |          |          | -10351   | 6270   | 23 OPH      | 13   | 22   | 170070000 |     |
| 50705 | 16 52 38 | -33 21.6  | 13  | 3.9 | 1.1(.4) |          |          |          | -30268E  | 6282   | GC 22801 EO | 350  | 6    | 100000000 |     |
| 50715 | 16 52 41 | 49 8.2    | 24  | 2.4 | 1.1(.4) |          |          |          | 50257    |        | AI HER      | 75   | 39   | 000020000 |     |
| 50725 | 16 52 41 | 82 9.8    | 119 | 3.2 | 1.5(.4) |          |          |          |          |        | EPS UMI     | 113  | 31   | 200+17700 |     |
| 50735 | 16 52 59 | 16 31.3   | 16  | 3.4 | 1.3(.4) |          |          |          | 20309    | 6283   | 54 HER      | 38   | 34   | 000010000 |     |
| 50745 | 16 54 7  | -33 14.8  | 12  | 3.9 | 1.5(.4) |          |          |          | -30270E  | 6288   | 27 SCO EO   | 351  | 6    | 100000000 |     |
| 50755 | 16 54 41 | 60 7.2    | 24  | 2.4 | 1.7(.4) |          |          |          | 50259    | 6306   | DO 35515    | 77   | 39   | 000010000 |     |
| 19125 | 16 55 1  | 9 19.2    | 15  | 3.4 |         | -1.2(.4) | -3.3(.4) |          |          |        |             | 28   | 30   | 000060000 |     |
| 50765 | 16 55 3  | -9 25.6   | 14  | 4.2 | 1.9(.4) |          |          |          | -10353   |        | V1055 OPH   | 10   | 20   | 170000000 |     |
| 50775 | 16 55 6  | -19 46.2  | 13  | 4.0 | 1.4(.4) |          |          |          | -20340   |        |             | 2    | 14   | 170000000 |     |
| 15135 | 16 55 10 | -1 15.3   | 14  | 3.5 |         |          | -6(.4)   | -3.4(.4) |          |        |             | 18   | 24   | 000060077 |     |
| 50785 | 16 55 12 | -2 41.4   | 12  | 4.0 | 1.5(.4) |          |          |          | 293      |        | SS OPH      | 16   | 24   | 010070000 |     |
| 19155 | 16 55 48 | 16 22.5   | 18  | 3.4 | 1.7(.3) |          |          |          |          |        |             | 36   | 32   | 000010000 |     |
| 50795 | 16 57 5  | -7 34.9   | 14  | 3.5 | 1.9(.3) |          |          |          | -10354   |        |             | 12   | 21   | +70010003 |     |
| 50805 | 16 57 30 | -10 32.5  | 12  | 4.0 | 1.4(.4) |          |          |          | -10355   |        |             | 10   | 19   | 710000000 |     |



TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)     | M(11) | M(20)     | M(27) | INC       | BS   | COMMENTS      | L II | B II | OBS. LOC  |
|-------|----------|-----------|----|-----|----------|-------|-----------|-------|-----------|------|---------------|------|------|-----------|
|       | N        | D         | S  | S   |          |       |           |       |           |      |               |      |      |           |
| 50815 | 16 58 3  | -25 29.6  | 9  | 2.8 | 1.8(-.4) |       |           |       |           |      | PT OPH        | 357  | 10   | 110000000 |
| 50825 | 16 58 22 | -4 8.5    | 15 | 4.2 | 1.0(-.3) |       |           |       |           |      | 30 OPH        | 16   | 22   | 1+00+0000 |
| 50835 | 16 59 38 | 20 32.4   | 13 | 4.0 |          |       | -4.0(-.4) |       | 284       | 6318 |               | 41   | 33   | 0000+0040 |
| 50845 | 17 1 30  | 42 41.3   | 14 | 3.9 |          |       | -3.9(-.5) |       |           |      |               | 67   | 37   | 0000+0040 |
| 50855 | 17 3 41  | 72 18.8   | 44 | 4.1 |          |       | -3.7(-.4) |       |           |      |               | 104  | 34   | 4000+0000 |
| 50865 | 17 4 24  | 22 7.7    | 17 | 3.3 | 1.4(-.5) |       |           |       | 20313     | 6364 | QC 23089      | 43   | 32   | 000010000 |
| 50875 | 17 4 24  | -31 46.6  | 13 | 3.8 | 2.6(-.5) |       |           |       | -30279    |      | TU SCO.EO     | 353  | 5    | 300000030 |
| 19215 | 17 4 47  | -9 18.1   | 14 | 4.0 |          |       | -2.8(-.4) |       |           |      |               | 12   | 18   | 470000007 |
| 50885 | 17 5 44  | 78 21.5   | 53 | 4.0 |          |       | -5(-.4)   |       |           |      | EO            | 108  | 33   | 2000+0000 |
| 50895 | 17 6 2   | 72 13.0   | 45 | 4.1 |          |       |           |       |           |      |               | 104  | 34   | 1000+0000 |
| 50905 | 17 6 35  | -31 17.7  | 10 | 2.2 | 2.2(-.4) |       |           |       | -30281    |      |               | 354  | 5    | 300000000 |
| 19235 | 17 6 51  | 49 5.7    | 24 | 2.5 | 1.2(-.3) |       |           |       |           |      |               | 75   | 37   | 000010000 |
| 50915 | 17 8 51  | 27 38.1   | 18 | 3.3 | 1.2(-.4) |       |           |       | 30302     |      | CA HER        | 50   | 33   | 000010000 |
| 19315 | 17 9 59  | 29 48.0   | 18 | 3.1 |          |       | -3.1(-.4) |       |           |      |               | 52   | 33   | 000040010 |
| 50925 | 17 10 11 | 4 17.5    | 10 | 2.7 |          |       | -5.7(-.5) |       | -30286    |      | EO.R          | 25   | 24   | 000070022 |
| 50935 | 17 10 38 | -31 23.7  | 14 | 3.9 | 1.5(-.4) |       |           |       |           |      | V1655 OPH     | 354  | 4    | 100000000 |
| 50945 | 17 11 7  | -22 4.9   | 11 | 3.9 | 1.6(-.4) |       |           |       |           |      |               | 2    | 10   | 710000000 |
| 19355 | 17 11 22 | -4 58.8   | 15 | 3.4 |          |       | -3.3(-.4) |       | 286       |      |               | 26   | 24   | 0000400+7 |
| 19395 | 17 11 50 | -4 44.4   | 10 | 2.9 | 1.7(-.3) |       |           |       |           |      | SVS 3043      | 17   | 18   | 110000000 |
| 50955 | 17 12 12 | -15 12.8  | 9  | 2.8 | 1.6(-.3) |       |           |       |           |      |               | 8    | 13   | 110000000 |
| 19485 | 17 12 25 | -9 53.9   | 9  | 2.8 | 1.5(-.4) |       |           |       | -10381    |      | V505 OPH      | 12   | 18   | 110000000 |
| 50985 | 17 12 33 | -26 26.6  | 12 | 3.9 | 1.5(-.4) |       |           |       | -30288    | 8401 | 38 OPH        | 358  | 7    | +10000000 |
| 50975 | 17 13 11 | -3 10.8   | 14 | 3.4 |          |       | -1.7(-.4) |       |           |      |               | 18   | 20   | +00000007 |
| 50985 | 17 14 7  | 4 48.6    | 15 | 3.4 | 1.2(-.4) |       | -3.6(-.4) |       | 50283     |      | DO 35850      | 71   | 35   | 000010000 |
| 50995 | 17 15 12 | -11 57.2  | 10 | 2.4 | 1.5(-.3) |       |           |       | 298       |      | UY OPH        | 26   | 23   | 000010000 |
| 51005 | 17 15 21 | -16 13.4  | 14 | 4.0 | 1.7(-.4) |       | -2(-.5)   |       | -10362    |      | RV SER        | 11   | 14   | 370000000 |
| 51015 | 17 16 24 | 10 52.2   | 15 | 3.3 | 1.5(-.5) |       |           |       | -20354    | 8428 | GC 23357      | 7    | 12   | 170000000 |
| 51025 | 17 16 44 | -23 47.0  | 11 | 3.9 | 1.0(-.4) |       |           |       | 10325     | 8433 | GC 23382      | 32   | 25   | 000010000 |
| 51035 | 17 16 57 | 41 36.8   | 21 | 3.0 | 1.5(-.3) |       | -3.0(-.4) |       | 40296     |      | SVS 101644    | 66   | 34   | 000010000 |
| 51045 | 17 18 54 | -14 33.6  | 15 | 4.1 | 1.5(-.4) |       |           |       |           |      | SVS 3125      | 9    | 12   | 3+0000000 |
| 51055 | 17 18 56 | 46 16.4   | 23 | 2.8 | 1.6(-.4) |       | -2.5(-.5) |       | -10365    |      | 74 HER        | 72   | 35   | 000050000 |
| 51065 | 17 20 5  | -28 4.4   | 14 | 3.9 | 1.5(-.3) |       |           |       | 50264     | 6464 | 43 OPH        | 358  | 5    | 170000000 |
| 51075 | 17 21 22 | -22 19.9  | 9  | 2.8 | 1.7(-.4) |       |           |       | -30291    | 6459 |               | 3    | 8    | 120000000 |
| 19625 | 17 21 31 | 10 7.8    | 8  | 2.2 |          |       | -8(-.5)   |       | -20359    |      |               | 32   | 24   | 000020077 |
| 51085 | 17 21 57 | -8 57.8   | 15 | 4.0 | 1.3(-.4) |       | -1.0(-.4) |       | -10367    |      |               | 16   | 18   | 170000000 |
| 51095 | 17 22 43 | 16 49.8   | 11 | 4.0 |          |       | -3.4(-.4) |       |           |      |               | 39   | 26   | 0000+0040 |
| 19665 | 17 23 27 | 22 6.3    | 17 | 3.3 |          |       | -1.1(-.4) |       |           |      |               | 45   | 28   | 0000+0070 |
| 51105 | 17 23 42 | 12 35.7   | 10 | 2.7 | 1.2(-.3) |       | -3.5(-.6) |       | -6.1(-.7) |      | AI OPH        | 35   | 25   | 000070014 |
| 51115 | 17 23 46 | -31 4.4   | 14 | 3.9 |          |       | -2.5(-.6) |       | -30297    |      | SVS 101653.EO | 356  | 2    | 500000000 |
| 51125 | 17 24 48 | -6 14.0   | 15 | 4.0 | 2.0(-.4) |       |           |       | -10368    |      | AK OPH        | 17   | 15   | 170000000 |
| 51135 | 17 24 52 | 4 14.9    | 13 | 4.1 |          |       | -3.5(-.5) |       |           |      | VM OPH        | 27   | 21   | 00007004+ |
| 51145 | 17 25 27 | 8 27.7    | 15 | 3.3 | 1.3(-.4) |       |           |       | 10328     |      | DO 4290       | 31   | 22   | 000010000 |
| 51155 | 17 25 59 | 15 55.7   | 16 | 3.3 | 1.5(-.4) |       |           |       | 20324     |      | SVS 7661      | 39   | 25   | 000010000 |
| 19735 | 17 27 16 | -18 54.3  | 10 | 3.9 | 1.4(-.3) |       |           |       |           |      |               | 7    | 8    | 710000000 |
| 51165 | 17 27 59 | -23 34.5  | 14 | 4.0 | 1.5(-.3) |       |           |       | -20366    |      |               | 2    | 6    | 120000000 |
| 51175 | 17 29 38 | 39 42.8   | 12 | 3.8 |          |       | -1.8(-.4) |       |           |      |               | 65   | 32   | 0000+0020 |
| 51185 | 17 29 38 | 52 24.0   | 26 | 2.9 | 1.0(-.4) |       |           |       | 50286     | 6536 | BET DRA       | 80   | 33   | 0000+1000 |
| 19795 | 17 30 5  | -22 24.4  | 9  | 2.8 | 1.5(-.3) |       |           |       | -20368    |      |               | 4    | 6    | 110000000 |
| 19825 | 17 31 5  | -24 49.1  | 8  | 2.7 | 1.2(-.3) |       |           |       | -20369    |      |               | 2    | 4    | 110000000 |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)     | M(11) | M(20) | M(27) | IRC    | BS | COMMENTS | L II | B II | OBS.        | LOG |
|-------|----------|-----------|----|-----|----------|-------|-------|-------|--------|----|----------|------|------|-------------|-----|
| 51195 | 17 32 8  | -7 12.5   | 10 | 2.5 | 1.7(-.4) |       |       |       | -10370 |    |          | 17   | 13   | 1700000000  |     |
| 19865 | 17 32 22 | 15 20.2   | 16 | 3.3 | 1.9(-.3) |       |       |       |        |    |          | 39   | 24   | 0000100000  |     |
| 51205 | 17 32 43 | -1 18.4   | 16 | 4.1 | 2.0(-.5) |       |       |       |        |    |          | 23   | 16   | 1000000000  |     |
| 51215 | 17 32 47 | -14 17.3  | 14 | 3.9 | 1.1(-.4) |       |       |       |        |    |          | 11   | 10   | 1700000000  |     |
| 51225 | 17 33 16 | -22 24.2  | 8  | 2.0 | 1.5(-.4) |       |       |       |        |    |          | 4    | 5    | 7300000000  |     |
| 19905 | 17 34 27 | -18 17.7  | 9  | 2.8 | 1.3(-.4) |       |       |       |        |    |          | 10   | 8    | 1100000000  |     |
| 51235 | 17 34 30 | -15 19.3  | 14 | 3.9 | 1.5(-.4) |       |       |       |        |    |          | 11   | 9    | 1700000000  |     |
| 51245 | 17 35 23 | -10 51.7  | 15 | 4.0 | 1.4(-.4) |       |       |       |        |    |          | 15   | 11   | 2700000000  |     |
| 51255 | 17 35 48 | -14 7.4   | 14 | 3.9 | 1.5(-.4) |       |       |       |        |    |          | 12   | 9    | 1700000000  |     |
| 51265 | 17 36 1  | -21 37.1  | 10 | 3.8 | 1.5(-.4) |       |       |       |        |    |          | 5    | 5    | 7100000000  |     |
| 51275 | 17 37 8  | -24 37.6  | 14 | 3.8 | 1.1(-.3) |       |       |       |        |    |          | 3    | 3    | 1+00000000  |     |
| 51285 | 17 38 0  | 46 10.2   | 23 | 2.7 | 1.0(-.4) |       |       |       |        |    |          | 72   | 1    | 0000100000  |     |
| 51295 | 17 39 5  | -6 25.5   | 15 | 3.9 | 1.6(-.4) |       |       |       |        |    |          | 19   | 12   | 1000000000  |     |
| 51305 | 17 39 16 | 11 42.5   | 11 | 3.9 | 1.7(-.4) |       |       |       |        |    |          | 36   | 21   | 000070077   |     |
| 51315 | 17 39 55 | -17 29.6  | 15 | 3.9 | 1.7(-.4) |       |       |       |        |    |          | 9    | 6    | 1700000000  |     |
| 51325 | 17 40 27 | 24 35.2   | 17 | 3.1 | 2.0(-.4) |       |       |       |        |    |          | 49   | 25   | 0000100000  |     |
| 51335 | 17 40 41 | -3 53.5   | 15 | 3.9 | 1.8(-.4) |       |       |       |        |    |          | 21   | 13   | 1000000000  |     |
| 20015 | 17 41 22 | -29 26.5  | 15 | 3.9 | 1.4(-.4) |       |       |       |        |    |          | 359  | 0    | 4700000000  |     |
| 51345 | 17 41 58 | -18 38.0  | 9  | 3.8 | 1.4(-.4) |       |       |       |        |    |          | 9    | 5    | +100000000  |     |
| 51355 | 17 42 9  | -1 33.5   | 11 | 4.0 | 1.4(-.4) |       |       |       |        |    |          | 24   | 14   | 7100000000  |     |
| 51365 | 17 42 38 | -26 34.4  | 15 | 3.9 | 1.7(-.4) |       |       |       |        |    |          | 0    | 0    | 1700000000  |     |
| 51375 | 17 42 56 | 21 30.2   | 18 | 3.2 | 1.5(-.3) |       |       |       |        |    |          | 46   | 24   | 0000100000  |     |
| 20055 | 17 43 37 | -20 53.6  | 15 | 3.9 | 1.4(-.3) |       |       |       |        |    |          | 7    | 4    | 1+00000000  |     |
| 51385 | 17 43 59 | -26 58.2  | 15 | 3.9 | 1.9(-.4) |       |       |       |        |    |          | 2    | 1    | 1700000000  |     |
| 51395 | 17 44 31 | 27 43.7   | 17 | 3.1 | 1.6(-.4) |       |       |       |        |    |          | 52   | 26   | 0000100000  |     |
| 20075 | 17 44 56 | 7 9       | 17 | 3.8 | 1.1(-.3) |       |       |       |        |    |          | 32   | 17   | 1000+0000   |     |
| 51405 | 17 44 57 | -24 45.5  | 14 | 3.8 | 1.2(-.4) |       |       |       |        |    |          | 4    | 2    | 1+00000000  |     |
| 51415 | 17 45 43 | -19 46.7  | 9  | 3.8 | 1.7(-.4) |       |       |       |        |    |          | 8    | 4    | 7100000000  |     |
| 51425 | 17 45 48 | 28 47.2   | 18 | 3.1 | 1.7(-.4) |       |       |       |        |    |          | 54   | 26   | 0000100000  |     |
| 51435 | 17 46 12 | -28 4.0   | 15 | 3.9 | 1.7(-.4) |       |       |       |        |    |          | 1    | 0    | 2+00000000  |     |
| 51445 | 17 47 10 | -22 27.8  | 9  | 3.8 | 1.8(-.4) |       |       |       |        |    |          | 6    | 2    | 7100000000  |     |
| 51455 | 17 47 14 | 22 28.8   | 18 | 3.2 | 2.2(-.4) |       |       |       |        |    |          | 47   | 23   | 0000100000  |     |
| 51465 | 17 48 25 | -28 28.0  | 8  | 2.7 | 1.8(-.3) |       |       |       |        |    |          | 1    | 1    | 4300000000  |     |
| 51475 | 17 48 55 | -23 35.0  | 9  | 2.7 | 1.8(-.3) |       |       |       |        |    |          | 6    | 2    | 1100000000  |     |
| 51485 | 17 48 55 | -29 41.1  | 10 | 3.8 | 1.4(-.4) |       |       |       |        |    |          | 0    | 2    | +1000000000 |     |
| 51495 | 17 49 20 | 19 2.3    | 9  | 2.5 | 1.8(-.4) |       |       |       |        |    |          | 44   | 21   | 000020027   |     |
| 51505 | 17 49 34 | -28 15.3  | 8  | 1.9 | 1.8(-.4) |       |       |       |        |    |          | 1    | 1    | 7300000000  |     |
| 51515 | 17 50 39 | -28 9.8   | 10 | 2.3 | 1.8(-.4) |       |       |       |        |    |          | 2    | 1    | 3+00000000  |     |
| 51525 | 17 50 39 | 45 28.7   | 12 | 2.3 | 1.5(-.4) |       |       |       |        |    |          | 72   | 29   | 0000+6020   |     |
| 20215 | 17 50 41 | 10 46.8   | 9  | 2.0 | 1.0(-.4) |       |       |       |        |    |          | 36   | 18   | 2000200+4   |     |
| 51535 | 17 51 37 | 13 6.7    | 10 | 3.9 | 1.8(-.4) |       |       |       |        |    |          | 38   | 19   | 0000+0027   |     |
| 51545 | 17 52 15 | 56 31.1   | 28 | 2.4 | 1.4(-.4) |       |       |       |        |    |          | 85   | 30   | 70002+0000  |     |
| 51555 | 17 52 51 | -13 38.5  | 15 | 3.8 | 1.7(-.4) |       |       |       |        |    |          | 14   | 6    | 1700000000  |     |
| 51565 | 17 52 54 | -27 58.9  | 10 | 3.8 | 1.7(-.4) |       |       |       |        |    |          | 2    | 1    | 7100000000  |     |
| 51575 | 17 53 18 | -12 54.7  | 9  | 2.8 | 1.4(-.4) |       |       |       |        |    |          | 15   | 6    | 7100000000  |     |
| 20295 | 17 53 38 | -1 26.7   | 9  | 2.7 | 1.3(-.3) |       |       |       |        |    |          | 25   | 12   | 1100000000  |     |
| 51585 | 17 54 20 | 5 53.1    | 17 | 3.8 | 1.7(-.4) |       |       |       |        |    |          | 32   | 15   | 3000000077  |     |
| 51595 | 17 54 25 | -29 52.5  | 10 | 3.8 | 1.2(-.4) |       |       |       |        |    |          | 1    | 3    | 0100000000  |     |
| 51605 | 17 55 50 | -16 36.8  | 15 | 3.9 | 1.9(-.4) |       |       |       |        |    |          | 12   | 4    | 1700000000  |     |
| 51615 | 17 55 57 | -26 35.0  | 15 | 3.8 | 1.4(-.3) |       |       |       |        |    |          | 4    | 1    | 1700000000  |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)    | M(11)   | M(20)   | M(27) | IRC    | BS   | COMMENTS                | L II | B II | OBS.       | LOG |
|-------|----------|-----------|----|-----|---------|---------|---------|-------|--------|------|-------------------------|------|------|------------|-----|
| 51635 | 17 56 12 | 29 13.1   | 18 | 3.1 | 1.0(3)  | -1.5(5) | -2.1(6) |       | 30324  | 8703 | XI HER<br>DO 36032      | 55   | 24   | 000050070  |     |
| 51635 | 17 56 18 | 80 36.2   | 48 | 2.7 | 1.2(4)  |         |         |       | 80034  |      |                         | 113  | 29   | +102++00   |     |
| 51645 | 17 56 31 | -8 41.3   | 18 | 3.8 | 1.8(4)  |         |         |       | -10388 |      |                         | 21   | 8    | 100000000  |     |
| 51655 | 17 56 35 | -23 27.7  | 15 | 3.8 | 1.9(4)  |         |         |       | -20409 |      |                         | 6    | 0    | 1+00000000 |     |
| 20435 | 17 56 35 | -20 35.3  | 17 | 1.9 |         | -1.3(4) |         |       |        |      |                         | 9    | 2    | +200000000 |     |
| 51665 | 17 56 40 | -8 6.9    | 10 | 3.9 | 1.2(4)  |         |         |       | -10389 |      |                         | 21   | 9    | 210000000  |     |
| 51675 | 17 57 3  | -20 23.5  | 9  | 3.8 | 1.7(4)  |         |         |       | -20410 | 6704 | GC 24490                | 9    | 2    | 210000000  |     |
| 20455 | 17 57 18 | -8 4.5    | 15 | 3.8 | 1.3(3)  |         |         |       |        |      |                         | 20   | 8    | 170000000  |     |
| 51685 | 17 57 47 | 18 43.0   | 16 | 3.2 | 1.9(4)  |         |         |       | 20340  | 6713 | 93 HER<br>WY HER        | 45   | 19   | 000010000  |     |
| 51695 | 17 57 54 | 23 38.4   | 9  | 1.8 | 1.3(4)  | -1.5(4) | -3.1(5) |       | 20341  |      |                         | 49   | 21   | 000010000  |     |
| 51705 | 17 58 2  | -22 58.8  | 15 | 3.8 |         | -2.0(4) |         |       | -20412 |      |                         | 7    | 0    | 2+0000000  |     |
| 51715 | 17 58 14 | 5 34.7    | 17 | 3.8 | 1.7(4)  |         |         |       | 10345  |      | V569 OPH<br>DO 36010    | 32   | 14   | 100000000  |     |
| 51725 | 17 58 14 | 45 29.4   | 22 | 2.8 | 1.6(4)  |         |         |       | 50276  | 8728 |                         | 72   | 28   | 000010000  |     |
| 51735 | 17 58 23 | -15 18.5  | 9  | 3.8 | 1.6(4)  |         |         |       | -20414 |      |                         | 14   | 4    | 100000000  |     |
| 51745 | 17 58 36 | -15 26.0  | 15 | 3.9 | 1.2(4)  |         |         |       | -20414 |      |                         | 14   | 4    | 170000000  |     |
| 51755 | 17 58 36 | -17 12.8  | 15 | 3.9 | 1.3(4)  |         |         |       | -20415 | 8715 | 6 SCR<br>V1741 SCR      | 12   | 3    | 170000000  |     |
| 51765 | 17 58 53 | -23 59.1  | 9  | 2.7 | 1.6(4)  | -1.2(4) | -2.8(5) |       | 30325  | 8726 | GC 24523<br>SHARP 28.E0 | 59   | 24   | 000010040  |     |
| 51775 | 17 58 59 | 33 13.0   | 10 | 2.4 | 2.0(4)  | -1.1(4) | -2.4(5) |       | -20418 |      |                         | 7    | 0    | 220000000  |     |
| 20495 | 17 59 14 | -23 27.4  | 9  | 2.7 |         |         |         |       | -10391 |      |                         | 16   | 5    | 170000000  |     |
| 51785 | 17 59 18 | -12 16.9  | 15 | 3.8 | 1.4(4)  |         |         |       |        |      |                         |      |      |            |     |
| 51795 | 17 59 20 | -8 28.8   | 17 | 3.7 | 1.7(4)  |         |         |       | 10346  |      | SVS 3672<br>95 HER      | 35   | 15   | 100000000  |     |
| 51805 | 17 59 22 | 21 37.3   | 8  | 2.1 | 1.6(4)  | -2.3(6) | -3.1(5) |       | 20343  | 8729 |                         | 48   | 20   | 000010042  |     |
| 51815 | 17 59 24 | -19 13.4  | 8  | 3.8 | 1.8(4)  |         |         |       | -20420 |      |                         | 10   | 2    | 210000000  |     |
| 51825 | 17 59 56 | -22 0.0   | 9  | 2.8 | 1.5(3)  |         |         |       | -20422 |      |                         | 8    | 0    | 210000000  |     |
| 51835 | 18 0 10  | -25 15.5  | 9  | 3.8 | 1.9(4)  |         |         |       | -30347 |      |                         | 5    | 2    | 210000000  |     |
| 51845 | 18 0 13  | 1 42.6    | 16 | 3.7 |         | -1.3(4) |         |       |        |      | V571 OPH                | 29   | 12   | 200000000  |     |
| 51855 | 18 0 20  | 49 51.7   | 24 | 2.7 | -1.1(4) |         |         |       |        |      |                         | 77   | 28   | 20002+000  |     |
| 51865 | 18 0 34  | 26 58.3   | 9  | 3.7 | -2.3(4) |         |         |       |        |      | DO 16402                | 53   | 22   | 0000+0020  |     |
| 51875 | 18 0 38  | 15 2.2    | 17 | 3.4 | 1.3(3)  | -2.3(4) |         |       | 20345  |      |                         | 41   | 17   | 100070000  |     |
| 51885 | 18 0 49  | -13 14.1  | 9  | 2.7 | 1.3(4)  | -2.2(6) |         |       | -10393 |      |                         | 16   | 4    | 210000000  |     |
| 20555 | 18 1 7   | -16 57.4  | 8  | 2.7 | 1.4(3)  |         |         |       |        |      |                         | 12   | 2    | 110000000  |     |
| 51895 | 18 1 31  | -12 43.9  | 15 | 3.8 | 1.6(4)  |         |         |       | -20425 |      |                         | 16   | 4    | 170000000  |     |
| 51905 | 18 1 36  | -28 1.0   | 15 | 3.8 | 1.9(4)  |         |         |       | -10394 |      |                         | 5    | 2    | 170000000  |     |
| 51915 | 18 2 14  | -16 57.1  | 9  | 2.7 | 1.5(4)  | -8(4)   |         |       | -30348 |      | BRIGHT NEB              | 13   | 2    | 210000000  |     |
| 51925 | 18 2 28  | -27 3.8   | 9  | 3.8 | 1.7(4)  |         |         |       | -30352 |      |                         | 4    | 3    | 210000000  |     |
| 51935 | 18 2 38  | -25 17.2  | 15 | 3.8 | 1.5(4)  |         |         |       | -30354 |      |                         | 5    | 2    | 170000000  |     |
| 51945 | 18 2 51  | -25 25.9  | 15 | 3.8 | 1.7(4)  |         |         |       | -30355 |      |                         | 5    | 2    | 170000000  |     |
| 51955 | 18 3 28  | 50 40.0   | 26 | 3.4 | 1.4(4)  | -1.0(4) |         |       |        |      |                         | 78   | 28   | 300070000  |     |
| 51965 | 18 3 50  | -27 50.3  | 9  | 3.8 | 1.4(4)  |         |         |       | -30356 |      |                         | 3    | 4    | 010000000  |     |
| 51975 | 18 4 13  | -14 34.5  | 9  | 3.8 | 1.4(4)  |         |         |       | -10397 |      |                         | 15   | 3    | 210000000  |     |
| 51985 | 18 5 18  | -23 52.0  | 15 | 3.8 | 2.0(4)  |         |         |       |        |      |                         | 7    | 2    | 170000000  |     |
| 20735 | 18 5 26  | -20 1.8   | 8  | 2.6 | 1.5(3)  | -8(4)   |         |       | -20432 |      |                         | 10   | 0    | 310000000  |     |
| 51995 | 18 6 50  | -24 4.2   | 8  | 3.7 |         | -1.4(4) |         |       | -20433 |      | NGC 6559.E0             | 7    | 2    | +20000000  |     |
| 20815 | 18 7 4   | -23 34.7  | 9  | 3.7 |         | -1.3(4) |         |       |        |      | NGC 6559                | 7    | 2    | 220000000  |     |
| 52005 | 18 7 7   | -24 10.6  | 9  | 2.7 |         | -1.1(4) |         |       | -10400 |      |                         | 22   | 6    | 210000000  |     |
| 52015 | 18 7 35  | -8 52.4   | 9  | 2.7 | 1.4(4)  | -3(4)   |         |       | -20440 |      | SV SCR                  | 7    | 2    | 170000000  |     |
| 52025 | 18 7 37  | -23 38.0  | 15 | 3.8 | 1.6(4)  |         |         |       | -20441 |      |                         | 12   | 0    | +10000000  |     |
| 52035 | 18 8 5   | -18 50.8  | 8  | 3.7 | 1.2(4)  |         |         |       | 2403   |      |                         | 23   | 6    | 210000000  |     |
| 52045 | 18 8 8   | -6 7.4    | 9  | 2.7 | 1.7(4)  | -1.1(4) |         |       |        |      |                         | 15   | 2    | 210000000  |     |
| 52055 | 18 9 10  | -14 56.1  | 9  | 2.7 | 1.4(4)  | -1.0(4) |         |       | -10405 |      |                         |      |      |            |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)    | M(11) | M(20)    | M(27) | INC    | BS   | COMMENTS    | L II | B II | OBS.       | LOG |
|-------|----------|-----------|----|-----|---------|-------|----------|-------|--------|------|-------------|------|------|------------|-----|
| 52065 | 18 9 45  | 6 48.7    | 10 | 2.6 |         |       |          |       |        |      |             |      |      |            |     |
| 52075 | 18 9 54  | -24 55.2  | 8  | 3.7 | 1.5(-4) |       | -3.1(-4) |       | -20448 |      | MGC 6572    | 35   | 12   | 400000040  |     |
| 52085 | 18 9 56  | -16 18.1  | 15 | 3.2 | 1.5(-4) |       |          |       | -20447 |      |             | 7    | -3   | +10000000  |     |
| 52095 | 18 10 37 | 25 7.8    | 17 | 3.2 | 1.5(-4) |       |          |       | 30329  |      | DO 16558    | 14   | 1    | 170000000  |     |
| 52105 | 18 10 41 | 4 5.2     | 16 | 3.6 | 2.4(-4) |       |          |       | 340    |      | DO 4840     | 52   | 19   | 000010000  |     |
| 52115 | 18 11 15 | -12 39.7  | 15 | 3.8 | 1.3(-3) |       |          |       |        |      |             | 32   | 10   | 100000000  |     |
| 52118 | 18 11 22 | 12 26.4   | 17 | 3.5 | 1.2(-3) |       |          |       |        |      | V454 OPH    | 17   | 2    | 170000000  |     |
| 52128 | 18 12 14 | -2 40.8   | 16 | 3.8 | 1.2(-3) |       | -8(-4)   |       | 10352  |      | DO 4865     | 40   | 14   | 300000077  |     |
| 52135 | 18 12 55 | 16 15.0   | 10 | 2.6 | 1.4(-3) |       |          |       | 342    |      | DO 16603    | 28   | 7    | 100000000  |     |
| 52095 | 18 12 56 | 25 55.9   | 17 | 3.2 | 1.5(-4) |       | -2.9(-4) |       | 20355  |      |             | 44   | 15   | 100000000  |     |
| 21005 | 18 13 22 | 27 33.5   | 17 | 3.1 |         |       |          |       |        |      |             | 53   | 19   | 000040070  |     |
| 52145 | 18 14 19 | -25 35.8  | 8  | 3.7 | 1.8(-3) |       |          |       |        |      |             | 55   | 20   | 000010000  |     |
| 52155 | 18 14 33 | -25 18.4  | 8  | 3.7 | 1.4(-3) |       |          |       |        |      | SVS 3955    | 6    | -4   | 710000000  |     |
| 52165 | 18 14 37 | -15 15.7  | 15 | 3.6 | 1.8(-4) |       |          |       |        |      | V1648 SCR   | 7    | -4   | 710000000  |     |
| 21115 | 18 14 56 | 36 42.8   | 18 | 3.0 | 1.3(-3) |       | -8(-4)   |       | -20487 |      |             | 16   | 0    | 170000000  |     |
| 52175 | 18 15 2  | -17 52.8  | 15 | 3.7 | 1.3(-3) |       |          |       |        |      |             | 64   | 22   | 000030070  |     |
| 52185 | 18 15 23 | 47 47.5   | 23 | 2.6 | 1.2(-3) |       |          |       | -20486 |      |             | 13   | -1   | 170000000  |     |
| 52195 | 18 16 0  | -25 37.5  | 8  | 3.7 | 1.3(-3) |       |          |       |        |      |             | 76   | 25   | 700000000  |     |
| 52205 | 18 16 12 | -11 41.9  | 9  | 2.6 | 1.5(-3) |       | -9(-4)   |       |        |      | SVS 3992    | 7    | -5   | 710000000  |     |
| 52208 | 18 16 13 | 60 44.3   | 32 | 2.5 |         |       | -2.9(-4) |       |        |      | CV SER      | 19   | 2    | 620000000  |     |
| 21215 | 18 16 17 | -20 45.1  | 7  | 3.7 |         |       | -3.2(-4) |       |        |      |             | 90   | 28   | 700047000  |     |
| 52215 | 18 16 32 | 36 41.2   | 19 | 3.0 | 1(-3)   |       | -3.3(-4) |       |        |      |             | 11   | -3   | +40000000  |     |
| 52225 | 18 17 17 | -15 49.9  | 8  | 3.7 |         |       |          |       |        |      |             | 64   | 22   | +0017000   |     |
| 21255 | 18 17 38 | -14 9.9   | 9  | 2.7 | 1.3(-3) |       | -8(-4)   |       | -20485 | 6858 | GC 25006 EO | 15   | -0   | 720000000  |     |
| 52235 | 18 18 11 | -15 15.5  | 8  | 3.7 | 1.3(-3) |       |          |       | -10411 |      |             | 17   | 0    | 110000000  |     |
| 52245 | 18 18 26 | 5 54.1    | 16 | 3.5 | 1.6(-4) |       |          |       | -20487 |      | RCV 181     | 16   | -0   | 710000000  |     |
| 52255 | 18 18 2  | -23 35.1  | 15 | 3.7 | 1.3(-4) |       |          |       | 10358  |      | V1014 OPH   | 35   | 9    | 100000000  |     |
| 52265 | 18 18 20 | -14 40.8  | 9  | 2.6 |         |       | -5(-4)   |       | -20489 |      |             | 9    | -4   | 170000000  |     |
| 52275 | 18 19 40 | -18 22.8  | 7  | 3.7 | 1.5(-4) |       | -2.3(-5) |       |        |      | SHARP. 48   | 17   | -0   | 420000000  |     |
| 52285 | 18 20 19 | -12 40.5  | 15 | 3.8 | 1.5(-4) |       |          |       | -20470 |      |             | 12   | -3   | 710000000  |     |
| 52295 | 18 20 26 | -20 40.2  | 7  | 3.7 | 1.7(-4) |       |          |       | -10415 |      | FR SCT      | 18   | 0    | 170000000  |     |
| 52305 | 18 20 27 | -23 5.2   | 15 | 3.7 | 1.7(-4) |       |          |       | -20471 |      |             | 11   | -3   | 710000000  |     |
| 21405 | 18 20 29 | 50 42.4   | 18 | 2.0 | 1.8(-4) |       | -2.9(-4) |       | -20473 |      |             | 9    | -5   | 170000000  |     |
| 52315 | 18 20 49 | -4 30.5   | 9  | 2.6 | 1.5(-4) |       |          |       |        |      |             | 79   | 25   | 400000000  |     |
| 52315 | 18 20 58 | -8 0      | 8  | 3.7 | 1.7(-4) |       |          |       | 348    |      |             | 26   | 4    | 110000000  |     |
| 21445 | 18 21 33 | 72 41.6   | 36 | 1.4 | 1.7(-3) |       |          |       | -10417 | 6854 | ZET SCT     | 22   | 2    | 710000000  |     |
| 52325 | 18 22 14 | 43 52.0   | 22 | 2.6 | 1.7(-3) |       |          |       | 70144  | 6857 | CHI DRA     | 103  | 26   | 700011000  |     |
| 52335 | 18 22 28 | -6 54.9   | 15 | 3.7 | 1.5(-4) |       |          |       | 40316  |      | DO 34212    | 72   | 23   | 7000371000 |     |
| 52345 | 18 22 43 | -13 47.6  | 10 | 2.4 | 1.7(-4) |       |          |       | -10418 |      |             | 24   | 3    | 100000000  |     |
| 52355 | 18 22 44 | -12 43.1  | 9  | 2.6 | 2.0(-3) |       |          |       | -10419 |      |             | 18   | -1   | 170000000  |     |
| 52365 | 18 23 58 | -21 10.4  | 15 | 3.7 | 1.4(-4) |       | -8(-4)   |       |        |      | RY SCT      | 19   | -0   | 230000000  |     |
| 52375 | 18 25 5  | -16 45.4  | 8  | 3.7 | 1.7(-4) |       |          |       | -20483 |      | V1651 SCR   | 11   | -4   | 170000000  |     |
| 52385 | 18 25 12 | -21 18.8  | 7  | 3.7 | 1.7(-4) |       | -1.0(-4) |       | -20484 |      | AK SCR      | 15   | -3   | 700000000  |     |
| 52395 | 18 25 39 | -19 47.1  | 7  | 3.7 | 1.8(-4) |       |          |       | -20485 |      |             | 11   | -5   | 700000000  |     |
| 52405 | 18 26 5  | 63 33.1   | 37 | 2.0 | 1.8(-4) |       |          |       | -20486 |      |             | 13   | -4   | 710000000  |     |
| 52415 | 18 26 26 | 49 17.9   | 24 | 2.9 | 1.3(-4) |       |          |       | 70145  | 6849 | 42 DRA      | 85   | 27   | 70001000   |     |
| 52425 | 18 26 26 | 6 16.9    | 10 | 2.5 | 1.7(-4) |       | -3(-5)   |       | 50280  |      | AL DRA      | 78   | 24   | 700017000  |     |
| 21705 | 18 26 38 | -6 6.3    | 16 | 3.6 | 1.7(-4) |       | -1.3(-4) |       | 10356  |      | T SER       | 36   | 8    | 300000070  |     |
| 52435 | 18 26 58 | -11 11.1  | 18 | 3.7 | 1.7(-4) |       |          |       | -10428 |      |             | 25   | 2    | 200000000  |     |
| 52445 | 18 27 5  | 16 11.1   | 17 | 3.3 | 1.7(-4) |       | -1.7(-4) |       |        |      |             | 21   | -0   | 170000000  |     |
|       |          |           |    |     |         |       |          |       |        |      |             | 45   | 12   | 200000000  |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)     | M(11)    | M(20)    | M(27) | IRC    | DS   | COMMENTS    | L   | I   | B | I | ORS. | LOG        |
|-------|----------|-----------|----|-----|----------|----------|----------|-------|--------|------|-------------|-----|-----|---|---|------|------------|
|       |          |           |    |     |          |          |          |       |        |      |             |     |     |   |   |      |            |
| 52455 | 18 26 8  | -21 15.8  | 15 | 3.7 | 2.1(.5)  |          |          |       | -20490 |      | RLW 171     | 12  | -5  |   |   |      | 170000000  |
| 52465 | 18 28 25 | -9 28.7   | 16 | 3.7 | 1.2(.4)  |          |          |       | -10130 |      | BP SCT      | 23  | 1   |   |   |      | 100000000  |
| 52475 | 18 28 31 | -9 23.0   | 7  | 3.6 | 1.8(.4)  |          |          |       | -10431 |      |             | 22  | 0   |   |   |      | 710000000  |
| 52485 | 18 29 44 | 12 49.6   | 7  | 3.2 |          |          |          |       |        |      |             | 42  | 10  |   |   |      | 400000000  |
| 52495 | 18 29 7  | 25 8.1    | 9  | 1.6 | 1.7(.4)  | -1.8(.8) | -3.2(.4) |       | 30336  |      | DO 16848    | 54  | 15  |   |   |      | 1003*4027  |
| 52505 | 18 29 59 | 4 18.2    | 16 | 3.6 | 1.6(.4)  | -3.5(.5) |          |       | 354    |      | DO 4888     | 35  | 6   |   |   |      | 100000000  |
| 52515 | 18 30 5  | -13 48.5  | 15 | 3.7 | 1.6(.4)  |          |          |       | -20493 |      | V2003 SCR   | 13  | -5  |   |   |      | 170000000  |
| 52525 | 18 30 9  | 23 11.2   | 8  | 2.1 |          | -1.0(.4) | -3.1(.4) |       |        |      | V1683 SCR   | 52  | 14  |   |   |      | 700000000  |
| 52535 | 18 30 15 | -21 0.0   | 15 | 3.7 | 1.5(.3)  | -1.8(.4) |          |       | -20494 |      |             | 12  | -6  |   |   |      | 200000000  |
| 52545 | 18 30 17 | -20 6.7   | 7  | 3.6 |          |          |          |       |        |      |             | 13  | -5  |   |   |      | 710000000  |
| 52555 | 18 30 18 | 20 19.9   | 11 | 2.5 | 1.5(.4)  | -2.3(.5) | -2.8(.6) |       |        |      | GM HER      | 49  | 13  |   |   |      | 400010000  |
| 52565 | 18 30 50 | 23 34.1   | 16 | 3.2 | 2.0(.4)  |          |          |       | 20365  | 8961 | GC 25328    | 52  | 14  |   |   |      | 700017000  |
| 52575 | 18 30 51 | -24 7.1   | 7  | 3.6 | 1.3(.4)  |          |          |       | -20495 | 8961 | 24 SCR      | 9   | -7  |   |   |      | 010000000  |
| 52585 | 18 31 13 | 3 41.8    | 16 | 3.6 | 1.5(.4)  |          |          |       | 358    |      | AG SER      | 34  | 6   |   |   |      | 100000000  |
| 52595 | 18 31 20 | -13 8.1   | 15 | 3.8 | 1.5(.4)  |          |          |       | -10435 |      |             | 19  | -2  |   |   |      | 170000000  |
| 52605 | 18 31 46 | -19 27.1  | 8  | 2.6 |          | -1.0(.5) |          |       | -20496 |      |             | 14  | -5  |   |   |      | 220000000  |
| 52615 | 18 31 51 | 10 25.9   | 17 | 3.2 | 1.5(.4)  | -2.9(.4) |          |       | 10363  |      | V626 OPH    | 40  | 9   |   |   |      | 400000000  |
| 52625 | 18 32 48 | -23 55.6  | 16 | 3.5 | 1.4(.4)  |          |          |       | -20498 |      | V925 OPH    | 37  | 7   |   |   |      | 100000000  |
| 52635 | 18 33 18 | 28 44.2   | 13 | 1.9 |          | -7(.4)   |          |       |        |      | MGC 6556    | 10  | -8  |   |   |      | 010000000  |
| 52645 | 18 33 37 | -6 42.0   | 16 | 3.6 | 1.2(.4)  |          |          |       |        |      | SVS 101742  | 58  | 16  |   |   |      | 200000000  |
| 52655 | 18 34 14 | -19 11.9  | 6  | 3.6 | 1.5(.4)  |          |          |       | -10440 |      | SHARP. 60   | 25  | 0   |   |   |      | 200000000  |
| 52665 | 18 34 23 | 30 26.3   | 9  | 3.7 | 1.5(.4)  |          |          |       | -30502 |      | GC 25425    | 23  | -1  |   |   |      | 710000000  |
| 52675 | 18 35 13 | 31 17.6   | 18 | 2.4 |          | -3.3(.5) | -8.3(.6) |       |        |      |             | 14  | -6  |   |   |      | 700000000  |
| 52685 | 18 35 14 | -12 22.4  | 8  | 2.5 | 1.6(.4)  | -2.6(.4) |          |       | -10443 |      |             | 60  | 17  |   |   |      | 600000000  |
| 52695 | 18 35 18 | -6 53.8   | 9  | 1.7 | 1.3(.3)  |          |          |       | -10442 |      | EM SCT      | 20  | -3  |   |   |      | 110000000  |
| 52705 | 18 35 25 | 35 11.9   | 10 | 2.1 |          | -5(.4)   |          |       |        |      |             | 25  | -0  |   |   |      | +300000000 |
| 52715 | 18 35 28 | 5 4.4     | 11 | 3.6 | -3(.4)   | -2.7(.5) |          |       | -10442 |      | BS SER      | 64  | 18  |   |   |      | 200000000  |
| 52725 | 18 35 43 | 14 42.7   | 9  | 3.7 | -2.7(.4) | -3.5(.5) |          |       |        |      |             | 36  | 5   |   |   |      | 000000000  |
| 52735 | 18 36 18 | -5 20.8   | 12 | 2.1 | 1.2(.4)  |          |          |       | 20368  |      | DO 16914    | 52  | 13  |   |   |      | 100000000  |
| 52745 | 18 36 28 | 1 38.8    | 16 | 3.4 | 1.5(.4)  | -1.4(.4) |          |       | 381    |      |             | 27  | 0   |   |   |      | 700000000  |
| 52755 | 18 36 41 | 30 26.2   | 13 | 1.9 | 1.4(.3)  |          |          |       | 30337  |      | DO 16922    | 33  | 4   |   |   |      | 100000000  |
| 52765 | 18 36 45 | -28 42.6  | 7  | 3.6 | 1.5(.3)  | -1.0(.4) |          |       | -30392 |      | MO SCR      | 59  | 16  |   |   |      | 100000000  |
| 52775 | 18 38 18 | -5 42.6   | 9  | 2.5 |          | -1.2(.4) |          |       | -10452 |      |             | 6   | -10 |   |   |      | 010000000  |
| 52785 | 18 38 16 | -6 24.3   | 9  | 2.6 | 1.6(.4)  | -7(.4)   |          |       | -10453 |      |             | 27  | -0  |   |   |      | 220000000  |
| 52795 | 18 39 16 | 6 22.4    | 16 | 3.5 | 1.6(.4)  |          |          |       | 10369  |      | WY OPH      | 36  | -1  |   |   |      | 220000000  |
| 52805 | 18 39 23 | 46 22.2   | 22 | 2.2 | 1.8(.4)  |          |          |       | 50283  |      | DO 36424    | 36  | 5   |   |   |      | 100000000  |
| 52815 | 18 39 32 | -7 22.9   | 16 | 3.6 | 1.4(.4)  |          |          |       | -10455 |      | GC 25581    | 75  | 21  |   |   |      | 700017000  |
| 52825 | 18 39 36 | 74 17.7   | 39 | 1.9 | 1.6(.3)  |          |          |       | 70146  |      |             | 25  | -1  |   |   |      | 100000000  |
| 52835 | 18 39 53 | -2 7.7    | 16 | 3.5 |          | -3.0(.4) |          |       |        |      | RS OPA      | 105 | 27  |   |   |      | 100000000  |
| 52845 | 18 40 7  | 10 18.2   | 17 | 3.3 | 1.5(.3)  | -3.1(.4) |          |       |        |      | V668 OPH.EO | 30  | 1   |   |   |      | 400000000  |
| 52855 | 18 40 10 | -4 36.0   | 9  | 2.5 | 1.5(.3)  |          |          |       | -10457 | 7032 | SVS 4316    | 41  | 7   |   |   |      | 400000000  |
| 52865 | 18 40 45 | -8 23.6   | 8  | 3.6 | 1.2(.4)  |          |          |       | 368    |      | EPS SCT     | 28  | -0  |   |   |      | 110000000  |
| 52875 | 18 40 54 | -1 35.4   | 9  | 2.4 | 1.1(.3)  | -7(.4)   |          |       | -10456 |      | DO 5047     | 25  | -2  |   |   |      | 710000000  |
| 52885 | 18 40 58 | -11 25.8  | 15 | 3.5 | 1.6(.4)  |          |          |       | 30341  |      | GC 25608    | 31  | 1   |   |   |      | 300000000  |
| 52895 | 18 41 7  | 29 45.3   | 18 | 2.6 | 1.3(.4)  |          |          |       | -10456 |      | DO 16974    | 22  | -3  |   |   |      | 170000000  |
| 52905 | 18 41 30 | -2 34.4   | 16 | 3.5 | 1.8(.5)  |          |          |       | 371    |      |             | 59  | 15  |   |   |      | 100000000  |
| 52915 | 18 41 38 | -3 51.3   | 8  | 1.7 | 1.2(.3)  |          |          |       | 370    |      |             | 30  | 0   |   |   |      | 100000000  |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | R(2)   | M(11)   | M(20)   | M(27)   | IRC    | BS   | COMMENTS     | L II | B II | OBS.      | LOG |
|-------|----------|-----------|----|-----|--------|---------|---------|---------|--------|------|--------------|------|------|-----------|-----|
| 52855 | 18 42 2  | 11 14.0   | 17 | 3.3 | 1.1(4) | -9(4)   |         |         | 20371  |      | V1118 OPM    | 42   | 7    | 20000000  |     |
| 52875 | 18 42 26 | 17 27.2   | 10 | 2.4 | 1.1(4) | -1.2(5) |         |         |        |      | DO 16391     | 48   | 9    | 100007027 |     |
| 52885 | 18 42 7  | 17 20.7   | 9  | 2.6 | 1.6(4) | -1.6(5) |         |         | -20514 |      | SVS 4350     | 17   | 7    | 120000000 |     |
| 52905 | 18 43 1  | 4 10.2    | 16 | 3.3 |        |         | -2.8(4) |         |        |      | BA SER       | 36   | 3    | 400000000 |     |
| 52905 | 18 43 13 | 0 42.2    | 16 | 3.4 | 1.4(4) |         |         |         | 10377  | 7046 | T AOL.EO     | 40   | 5    | 100000000 |     |
| 52915 | 18 43 22 | -22 22.7  | 8  | 3.6 | 1.6(4) |         |         |         | -20516 |      | 28 SCR       | 12   | -9   | 010000000 |     |
| 52925 | 18 43 36 | -29 37.4  | 8  | 3.6 | 1.1(3) |         |         |         | -30394 |      | GC 25702     | 6    | -12  | 010000000 |     |
| 52935 | 18 43 40 | -3 30.0   | 16 | 3.5 | 1.5(4) |         |         |         | 375    |      | R            | 30   | -0   | 100000000 |     |
| 52945 | 18 43 7  | 22 25.2   | 17 | 2.9 | 1.6(4) |         |         |         | 20373  |      | R            | 53   | 11   | 700001000 |     |
| 52955 | 18 43 33 | -2 24.4   | 16 | 3.5 |        | -3.2(4) |         |         |        |      | R            | 30   | -0   | 400000000 |     |
| 52965 | 18 44 40 | 5 25.3    | 16 | 3.3 | 1.3(5) |         |         |         | 10379  |      | DR SER       | 37   | 3    | 100000000 |     |
| 52975 | 18 43 50 | -5 24.0   | 9  | 2.6 | 1.2(3) | -7(4)   | -2.6(5) |         | -10461 | 7046 | R SCT        | 27   | -2   | 430000000 |     |
| 52985 | 18 43 56 | -12 21.5  | 7  | 2.5 | 1.6(4) |         |         |         | -10462 |      | R            | 22   | -5   | 110000000 |     |
| 52995 | 18 45 0  | 42 43.8   | 21 | 3.0 |        | -9(4)   | -2.9(5) |         |        |      |              | 72   | 19   | 700007070 |     |
| 53005 | 18 45 30 | -19 56.6  | 7  | 3.7 | 1.4(3) |         |         |         |        |      |              | 15   | -8   | 010000000 |     |
| 53015 | 18 46 7  | 19 4.1    | 12 | 2.1 | 1.8(3) | -1.5(6) |         |         | 20376  |      | MZ HER       | 50   | 9    | 100000000 |     |
| 53025 | 18 46 9  | 19 40.0   | 7  | 3.7 | 1.6(3) |         |         |         | 20377  |      | SVS 7952     | 24   | -4   | 710000000 |     |
| 53035 | 18 46 22 | 15 44.4   | 12 | 2.1 | 2.2(4) |         | -3.7(4) |         | 360    |      | DO 17031     | 47   | 8    | 100004000 |     |
| 53045 | 18 46 25 | 2 21.5    | 16 | 3.4 | 1.5(3) |         |         |         |        |      | DO 5112.EO   | 35   | 2    | 100000000 |     |
| 53055 | 18 46 38 | 69 37.7   | 45 | 2.5 |        | -9(4)   |         |         |        |      |              | 100  | 26   | 700027000 |     |
| 53065 | 18 46 38 | -2 30.9   | 9  | 2.5 |        | -7(4)   |         |         |        |      | SHARP. 67.EO | 30   | -1   | 220000000 |     |
| 53075 | 18 46 59 | -5 18.6   | 16 | 3.6 | 1.4(3) |         |         |         | -10465 | 7046 | GC 25801     | 27   | -2   | 100000000 |     |
| 53085 | 18 47 28 | -10 45.4  | 15 | 3.5 | 1.6(4) |         |         |         |        |      | SV SCT       | 23   | -5   | 170000000 |     |
| 53095 | 18 47 36 | 25 4.2    | 18 | 2.5 | 1.6(3) |         | -2.9(4) |         |        |      |              | 58   | 13   | 50007007  |     |
| 53105 | 18 48 4  | 33 19.1   | 18 | 2.2 | 1.9(4) |         |         |         | 30343  | 7106 | BET LVR      | 63   | 15   | 100071000 |     |
| 53115 | 18 48 5  | 6 45.4    | 9  | 2.6 | 1.9(4) |         |         |         | -10469 |      | AI SCT       | 27   | -3   | 110000000 |     |
| 53125 | 18 48 17 | 23 43.8   | 12 | 2.0 | 1.7(3) |         |         |         | 20378  |      | DO 17035     | 54   | 11   | 100001000 |     |
| 53135 | 18 48 26 | 24 2.7    | 12 | 2.0 | 1.4(4) | -1.0(5) |         |         | -10470 |      | DO 17089     | 55   | 11   | 100002000 |     |
| 53145 | 18 48 34 | -12 42.6  | 8  | 3.7 | 2.0(4) |         |         |         |        |      | IV SCT       | 22   | -6   | 710000000 |     |
| 53155 | 18 48 37 | -9 38.0   | 8  | 3.7 | 1.8(3) |         |         |         |        |      |              | 24   | -4   | 710000000 |     |
| 53165 | 18 48 59 | 25 0.0    | 10 | 1.7 |        | -8(5)   | -3.3(4) |         |        |      | CS HER       | 55   | 11   | 200044000 |     |
| 53175 | 18 49 1  | -0 9.2    | 16 | 3.4 | 1.7(4) | -1.1(4) |         |         | 394    |      | R            | 33   | -0   | 300000000 |     |
| 53185 | 18 49 5  | -1 56.3   | 16 | 3.5 | 1.5(3) |         |         |         |        |      |              | 32   | -1   | 100000000 |     |
| 53195 | 18 49 55 | 46 41.3   | 16 | 1.7 | 1.4(3) |         |         |         | 50285  |      | DO 36566     | 76   | 19   | 100071000 |     |
| 53205 | 18 50 1  | -3 16.3   | 9  | 2.4 | 1.3(4) |         |         |         | 388    |      |              | 30   | -2   | 100000000 |     |
| 53215 | 18 50 13 | -7 57.3   | 15 | 3.4 |        |         | -2.6(4) |         |        |      | DS SCT       | 26   | -4   | 40007000  |     |
| 53225 | 18 50 16 | 33 30.7   | 18 | 2.2 | 1.4(3) | -7(4)   |         |         |        |      | HM LVR.EO    | 64   | 14   | 300071000 |     |
| 53235 | 18 50 31 | 59 40.5   | 23 | 1.9 | 1.3(4) |         |         |         | 60259  | 7125 | OMI DBA      | 89   | 23   | 700071000 |     |
| 53245 | 18 50 56 | 17 1.2    | 8  | 2.0 | 1.3(4) | -1.6(4) | -3.0(4) | -6.4(7) | -10472 |      | SV SCT       | 48   | 7    | 40006001  |     |
| 53255 | 18 50 56 | -12 40.9  | 9  | 2.5 | 1.3(3) | -5.1(4) |         |         |        |      |              | 22   | -6   | 210000000 |     |
| 53265 | 18 50 59 | 9 39.8    | 10 | 2.5 | 1.3(4) |         | -2.2(6) |         | 10393  |      | DO 5176      | 42   | 4    | 100000040 |     |
| 53275 | 18 51 10 | 42 7.0    | 20 | 2.1 | 1.4(3) | 0(4)    |         |         |        |      |              | 72   | 18   | 30007070  |     |
| 53285 | 18 51 15 | 30 37.9   | 13 | 2.1 | 1.8(3) |         |         |         | 30345  |      |              | 61   | 13   | 700011000 |     |
| 53295 | 18 51 52 | 36 49.3   | 18 | 1.9 | 1.6(3) |         | -2.8(5) |         |        |      |              | 67   | 15   | 50007070  |     |
| 53305 | 18 52 6  | 50 38.8   | 24 | 2.2 | 1.6(5) |         |         |         | 50286  | 7137 | GC 25935     | 80   | 20   | 700071000 |     |
| 53315 | 18 52 17 | 0 22.0    | 16 | 3.4 | 2.3(4) |         |         |         | 392    |      |              | 34   | -1   | 100000000 |     |
| 53325 | 18 52 20 | 27 50.4   | 10 | 1.8 | 1.5(4) | -2.8(5) | -2.8(4) |         | 30346  | 7133 | GC 25942     | 58   | 12   | 10004002  |     |
| 53335 | 18 52 22 | 8 12.4    | 16 | 3.2 | 1.1(3) |         |         |         | 10385  |      |              | 41   | 3    | 100000000 |     |
| 53345 | 18 52 38 | 41 25.9   | 21 | 2.4 |        | -3.1(4) |         |         |        |      | T SCT        | 71   | 17   | 700074070 |     |
| 53355 | 18 52 41 | -8 14.1   | 9  | 3.7 | 1.3(4) |         |         |         | -10475 |      |              | 26   | -5   | +10000000 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)     | M(11) | M(20) | M(27) | IPC      | ES   | COMMENTS   | L II | B II | OBS.       | LOG |
|-------|----------|-----------|----|-----|----------|-------|-------|-------|----------|------|------------|------|------|------------|-----|
| 22815 | 18 53 13 | -4 50.0   | 9  | 2.6 | 1.7(-4)  |       |       |       | 394      |      |            | 29   | -3   | 110000000  |     |
| 53255 | 18 53 17 | -29 40.1  | 8  | 3.7 | 2.0(-4)  |       |       |       | -30397   |      | UPS DRA    | 7    | -14  | 010000000  |     |
| 53265 | 18 54 52 | 71 13.8   | 21 | 1.7 | 1.4(-3)  |       |       |       | 70147    | 7180 | UW AGL     | 102  | 25   | 700071000  |     |
| 53275 | 18 55 7  | 0 22.6    | 16 | 3.4 | 1.6(-4)  |       |       |       | 398      |      | DO 17253   | 34   | -1   | 100000000  |     |
| 22045 | 18 56 33 | 25 11.5   | 12 | 1.9 | 1.6(-3)  |       |       |       | 30348    |      | DO 5239    | 56   | 10   | 100001000  |     |
| 53285 | 18 56 49 | 10 20.6   | 16 | 3.1 | 1.3(-3)  |       |       |       | 10390    |      |            | 43   | 3    | 100007000  |     |
| 22955 | 18 57 4  | -6 56.2   | 15 | 3.3 | 1.3(-3)  |       |       |       |          |      |            | 28   | -5   | 100000000  |     |
| 22985 | 18 57 59 | 3 39.6    | 16 | 3.3 | 1.3(-4)  |       |       |       | 30350    | 7192 | LAM LVR    | 37   | -0   | 4000000+0  |     |
| 53295 | 18 58 17 | 32 4.6    | 18 | 2.3 | 1.3(-4)  |       |       |       |          |      |            | 63   | 12   | 100070000  |     |
| 53305 | 18 59 29 | 5 7.6     | 12 | 4.0 |          |       |       |       |          |      |            | 39   | 0    | 700000040  |     |
| 53315 | 19 0 3   | 1 24.6    | 16 | 3.4 | 1.6(-5)  |       |       |       | 407      |      |            | 36   | -2   | 100000000  |     |
| 23055 | 19 0 9   | 22 45.5   | 17 | 2.8 | 1.5(-3)  |       |       |       |          |      | DO 17313   | 55   | 8    | 500007077  |     |
| 23075 | 19 0 17  | 25 15.9   | 12 | 1.9 |          |       |       |       |          |      | AN VUL     | 57   | 9    | 400004077  |     |
| 23135 | 19 1 10  | 5 26.8    | 9  | 2.3 | 1.1(-3)  |       |       |       |          |      |            | 39   | -0   | 700000070  |     |
| 53275 | 19 1 22  | 29 8.3    | 8  | 1.5 | -1.2(-4) |       |       |       | 30351    |      | YZ LVR     | 60   | 11   | 200041027  |     |
| 53285 | 19 1 40  | -21 47.9  | 8  | 3.7 | -1.3(-4) |       |       |       | -20336   | 7217 | OMI SGR    | 15   | -13  | 010000000  |     |
| 53295 | 19 2 27  | 1 31.5    | 16 | 3.4 | 1.4(-3)  |       |       |       | 411      |      | DO 5323    | 36   | -2   | 100000000  |     |
| 53305 | 19 2 26  | -7 15.5   | 15 | 3.4 | 1.2(-4)  |       |       |       | -10487   |      | GC 26236   | 28   | -6   | 100000000  |     |
| 53365 | 19 2 42  | -12 42.0  | 9  | 3.8 | 1.2(-4)  |       |       |       | -10488   |      | AE SGR     | 23   | -9   | +100000000 |     |
| 53375 | 19 2 52  | 39 10.5   | 11 | 2.5 | 1.1(-4)  |       |       |       |          |      |            | 70   | 14   | 70004040   |     |
| 53385 | 19 2 52  | 31 39.1   | 13 | 1.8 | 1.2(-3)  |       |       |       | 30253    | 7237 | DO 17381   | 63   | 11   | 4000+1077  |     |
| 53395 | 19 3 5   | 17 16.4   | 10 | 2.4 | 1.1(-4)  |       |       |       | 20386    |      |            | 50   | 5    | 100007010  |     |
| 53405 | 19 3 32  | 3 6.1     | 12 | 4.1 |          |       |       |       | -6.4(-8) |      |            | 37   | -2   | 100000040  |     |
| 53415 | 19 3 37  | -8 57.8   | 15 | 3.4 | -3.6(-4) |       |       |       |          |      | V961 AGL   | 27   | -7   | 400000000  |     |
| 23225 | 19 3 44  | 29 49.3   | 10 | 1.8 | -2.7(-4) |       |       |       | 30357    | 7244 | DO 17399   | 23   | -9   | 1000+1074  |     |
| 23285 | 19 5 30  | -12 45.3  | 16 | 3.4 | 1.7(-3)  |       |       |       |          |      |            | 61   | 10   | 1000+1074  |     |
| 53425 | 19 5 36  | 31 6.8    | 18 | 2.4 | 1.6(-3)  |       |       |       |          |      |            | 23   | -9   | 170000000  |     |
| 53435 | 19 6 11  | -4 7.9    | 10 | 3.8 | 1.3(-3)  |       |       |       | 413      |      |            | 63   | 11   | 30007077   |     |
| 53445 | 19 6 52  | 24 4.6    | 17 | 2.8 | 1.7(-4)  |       |       |       | 20388    |      | SWS 101803 | 31   | -6   | 710000000  |     |
| 53455 | 19 7 58  | 7 43.5    | 12 | 4.0 | 1.6(-4)  |       |       |       |          |      |            | 56   | 7    | 100007000  |     |
| 53465 | 19 7 59  | 35 8.0    | 18 | 2.2 | -1.2(-4) |       |       |       |          |      |            | 42   | -1   | 70000+060  |     |
| 53475 | 19 8 37  | 21 57.2   | 17 | 2.7 | 1.5(-3)  |       |       |       |          |      |            | 67   | 12   | 100070000  |     |
| 53485 | 19 8 38  | 36 50.5   | 19 | 2.4 | 1.2(-4)  |       |       |       | 20389    |      |            | 55   | 6    | 10070+000  |     |
| 23375 | 19 9 29  | 10 3.1    | 8  | 2.0 | 1.5(-3)  |       |       |       |          |      |            | 68   | 12   | 700071000  |     |
| 23395 | 19 9 34  | 32 32.5   | 18 | 2.4 | -1.2(-4) |       |       |       |          |      |            | 44   | 0    | 200002020  |     |
| 23395 | 19 10 14 | 67 12.2   | 28 | 1.7 | 1.1(-3)  |       |       |       | 30362    |      | OU LVR     | 64   | 10   | 10007+000  |     |
| 23425 | 19 11 4  | 25 55.6   | 12 | 1.9 | 1.5(-3)  |       |       |       | 70149    |      | U DRA      | 98   | 23   | 100071000  |     |
| 53505 | 19 11 18 | 2 33.8    | 10 | 2.6 | 1.4(-3)  |       |       |       |          |      | S LVR      | 59   | 7    | 300003077  |     |
| 53505 | 19 11 27 | 27 39.9   | 18 | 2.7 | -1.4(-3) |       |       |       | 416      |      | V842 AGL   | 38   | -4   | 100000020  |     |
| 23445 | 19 12 0  | 11 37.1   | 16 | 3.0 | 1.4(-3)  |       |       |       |          |      | EI LVR     | 60   | 8    | 700001000  |     |
| 53515 | 19 12 0  | 11 37.1   | 16 | 3.0 | 2.0(-4)  |       |       |       | 10412    |      | GC 26506   | 46   | 0    | 700001000  |     |
| 53525 | 19 12 47 | 22 0.0    | 17 | 2.8 | 1.4(-4)  |       |       |       |          |      |            | 55   | 5    | 700001000  |     |
| 53535 | 19 12 53 | 14 26.9   | 16 | 2.9 | -0.6(-4) |       |       |       | 20390    |      | DO 17555   | 49   | 2    | 700003070  |     |
| 53545 | 19 12 55 | 57 38.5   | 29 | 2.6 | 1.5(-4)  |       |       |       | 10413    |      | 54 DRA     | 89   | 20   | 100070000  |     |
| 53555 | 19 13 22 | 18 45.8   | 17 | 2.8 | 1.4(-4)  |       |       |       | 60264    | 7308 | DO 17567   | 52   | 3    | 100070000  |     |
| 23525 | 19 13 36 | -10 7.4   | 16 | 3.4 | 1.5(-4)  |       |       |       | 20391    |      |            | 27   | -10  | 170000000  |     |
| 53565 | 19 13 44 | 22 54.0   | 12 | 1.9 | 1.7(-3)  |       |       |       | 20392    |      | DO 17576   | 56   | 5    | 100002077  |     |
| 23555 | 19 14 8  | 34 35.3   | 13 | 2.0 | -1.3(-4) |       |       |       |          |      | OW LVR     | 67   | 10   | 4000470+0  |     |
| 23545 | 19 14 8  | -8 24.2   | 9  | 3.8 | -3.1(-5) |       |       |       |          |      |            | 28   | -9   | 720000000  |     |
| 53575 | 19 14 23 | 29 14.9   | 18 | 2.6 | -0.6(-4) |       |       |       | 20365    |      | OV LVR     | 62   | 8    | 100007000  |     |
| 53585 | 19 14 26 | 22 24.1   | 11 | 2.4 | -3.1(-5) |       |       |       |          |      | BRIGHT NES | 56   | 5    | 700004074  |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)    | M(11) | M(20) | M(27) | IPC    | BS   | COMMENTS    | L 11 | B 11 | OBS.      | LOG |
|-------|----------|-----------|----|-----|---------|-------|-------|-------|--------|------|-------------|------|------|-----------|-----|
|       |          |           |    |     |         |       |       |       |        |      |             |      |      |           |     |
| 53595 | 19 15 29 | -19 20 7  | 9  | 3.8 | 1.5(4)  |       |       |       | -20551 | 7328 | KAP CYG     | 18   | -14  | 010000000 |     |
| 53605 | 19 15 53 | 53 15.8   | 25 | 2.0 | 1.5(4)  |       |       |       | 50291  | 7317 | GC 26626    | 84   | 18   | 700010000 |     |
| 53615 | 19 16 13 | -15 40.5  | 10 | 3.8 | 1.3(3)  |       |       |       | -20553 | 7352 | TAU DRA     | 22   | -13  | 010000000 |     |
| 53645 | 19 16 29 | 73 16.1   | 38 | 1.9 | 1.6(4)  |       |       |       | 70163  |      | DO 17633    | 105  | 24   | 100011000 |     |
| 53655 | 19 17 5  | 27 12.6   | 12 | 1.8 | 1.7(4)  |       |       |       | 30367  |      | GC 26655    | 60   | 7    | 100020000 |     |
| 53655 | 19 17 22 | -6 39.7   | 9  | 2.6 | 2.1(4)  |       |       |       | -10501 |      |             | 30   | -9   | 210000000 |     |
| 53655 | 19 17 33 | 68 48.5   | 44 | 2.9 | 1.4(3)  |       |       |       |        |      |             | 100  | 23   | 200000000 |     |
| 53655 | 19 17 47 | 46 4.8    | 22 | 3.1 | 1.3(4)  |       |       |       | 425    |      | GC 26676    | 78   | 15   | 700010000 |     |
| 53665 | 19 18 12 | -4 39.8   | 10 | 3.9 | 1.3(4)  |       |       |       | 40544  |      | DO 37124    | 32   | -9   | +10000000 |     |
| 53725 | 19 18 17 | 40 41.1   | 11 | 1.5 | 1.7(4)  |       |       |       |        |      |             | 73   | 12   | 160011000 |     |
| 53675 | 19 18 19 | 37 47.1   | 10 | 2.5 | 1.0(3)  |       |       |       | 40345  |      | U LVR       | 70   | 11   | +000+1000 |     |
| 53685 | 19 18 39 | 41 37.2   | 12 | 2.5 | 1.6(4)  |       |       |       | 426    |      | DO 5651     | 74   | 13   | 700020000 |     |
| 53695 | 19 20 2  | -3 19.7   | 15 | 3.2 | 1.6(4)  |       |       |       |        |      | V1126 AOL   | 34   | -8   | 100000000 |     |
| 53705 | 19 20 25 | 7 20.2    | 11 | 2.2 | 1.8(4)  |       |       |       | 427    |      |             | 43   | -4   | 200000000 |     |
| 53715 | 19 20 54 | -2 42.9   | 15 | 3.2 | 1.8(4)  |       |       |       | -10510 |      |             | 34   | -8   | 100000000 |     |
| 53725 | 19 22 13 | -8 56.2   | 10 | 3.9 | 1.6(4)  |       |       |       | 20401  |      |             | 29   | -11  | 010000000 |     |
| 53725 | 19 22 38 | 21 22.9   | 17 | 2.7 | 1.5(4)  |       |       |       | 20400  |      | DO 17726    | 56   | 3    | 100000000 |     |
| 53735 | 19 22 47 | 17 37.8   | 17 | 2.9 | 1.7(4)  |       |       |       | 40346  |      | DO 17733    | 52   | 1    | 100000000 |     |
| 53745 | 19 23 13 | 35 56.0   | 11 | 2.2 | -1.3(4) |       |       |       |        |      | NGC 6709    | 69   | 9    | 2000+000  |     |
| 53855 | 19 23 21 | 53 32.0   | 15 | 1.6 | -1.6(5) |       |       |       |        |      |             | 65   | 17   | 200020000 |     |
| 53865 | 19 23 41 | 60 55.5   | 23 | 1.9 | 1.7(4)  |       |       |       |        |      |             | 92   | 20   | 100000000 |     |
| 53875 | 19 23 45 | 65 33.2   | 26 | 1.7 | 1.8(3)  |       |       |       | 70155  |      | DO 37260    | 97   | 21   | 100010000 |     |
| 53755 | 19 23 54 | 61 55.6   | 30 | 1.8 | 1.6(5)  |       |       |       | 70154  |      | DO 37274    | 100  | 22   | 700041000 |     |
| 53765 | 19 24 10 | 18 33.3   | 9  | 3.8 | 1.4(4)  |       |       |       | -20562 |      | AN SGR      | 20   | -16  | 010000000 |     |
| 53775 | 19 24 18 | 16 36.2   | 16 | 2.9 | 1.9(4)  |       |       |       | 20404  |      | DO 17749    | 55   | 2    | 700010000 |     |
| 53785 | 19 24 41 | 19 47.4   | 17 | 2.9 | 1.8(4)  |       |       |       | 20405  |      | V532 AOL    | 55   | 2    | 100000000 |     |
| 53795 | 19 24 41 | 0 56.5    | 15 | 3.1 | -9(4)   |       |       |       |        |      |             | 38   | -7   | 200000000 |     |
| 53935 | 19 25 40 | 33 25.1   | 18 | 2.2 | 1.2(3)  |       |       |       | -20564 |      |             | 67   | 8    | 400000000 |     |
| 53945 | 19 26 17 | 12 45.4   | 16 | 3.0 | 1.6(4)  |       |       |       |        |      |             | 49   | -2   | 100000000 |     |
| 53805 | 19 26 43 | -16 11.9  | 10 | 3.9 | 1.6(4)  |       |       |       |        |      |             | 23   | -16  | 010000000 |     |
| 53815 | 19 26 47 | 17 54.3   | 12 | 4.0 | 1.1(4)  |       |       |       |        |      |             | 53   | 0    | 700000000 |     |
| 53825 | 19 26 48 | 2 46.1    | 16 | 3.1 | 1.1(4)  |       |       |       | 436    |      | V858 AOL EO | 41   | -7   | +000+1000 |     |
| 53835 | 19 27 3  | 4 27.2    | 8  | 2.0 | -1.2(4) |       |       |       |        |      | V1133 AOL   | 41   | -8   | 400000000 |     |
| 53845 | 19 28 3  | 13 55.8   | 16 | 2.9 | -1.4(4) |       |       |       |        |      |             | 50   | -2   | 700000000 |     |
| 53855 | 19 28 33 | 11 18.9   | 9  | 2.3 | 1.9(3)  |       |       |       |        |      | V976 AOL    | 48   | -3   | 100000000 |     |
| 53855 | 19 28 51 | 15 32.9   | 17 | 3.0 | 1.3(4)  |       |       |       | -10515 |      | DM AOL      | 51   | -1   | 400000000 |     |
| 53865 | 19 29 7  | -10 57.7  | 10 | 3.9 | 1.3(4)  |       |       |       | 20412  |      |             | 28   | -14  | 010000000 |     |
| 53875 | 19 29 12 | 23 24.4   | 17 | 2.7 | 1.2(4)  |       |       |       |        |      |             | 58   | 2    | +000+1000 |     |
| 53885 | 19 29 54 | 49 46.4   | 23 | 1.9 | 1.4(4)  |       |       |       |        |      | GA AOL EO   | 82   | 15   | 400000000 |     |
| 53895 | 19 30 46 | -6 31.2   | 11 | 4.0 | 1.4(4)  |       |       |       |        |      |             | 52   | -12  | 010000000 |     |
| 53905 | 19 30 48 | 6 11.1    | 16 | 3.0 | 1.6(4)  |       |       |       | 10427  |      | V621 AOL    | 43   | -8   | 100000000 |     |
| 53915 | 19 31 4  | 36 44.7   | 19 | 2.1 | 1.9(5)  |       |       |       | 40349  |      | HM CYG      | 70   | 8    | 100000000 |     |
| 53925 | 19 31 5  | 2 50.7    | 16 | 3.1 | 1.4(4)  |       |       |       |        |      | V1138 AOL   | 40   | -8   | 100000000 |     |
| 53935 | 19 31 11 | -22 45.1  | 10 | 3.8 | 1.6(4)  |       |       |       | -20567 |      |             | 17   | -19  | 010000000 |     |
| 53945 | 19 31 14 | 1 32.3    | 11 | 2.8 | 2.0(4)  |       |       |       |        |      | GO AOL      | 39   | -9   | +000+0000 |     |
| 53955 | 19 31 27 | 32 35.6   | 9  | 2.8 | -3.6(4) |       |       |       |        |      | V895 CYG    | 67   | 6    | 300000000 |     |
| 53965 | 19 31 41 | 45 21.8   | 21 | 3.2 | -3.2(4) |       |       |       |        |      |             | 78   | 12   | 700000000 |     |
| 53975 | 19 31 47 | 7 16.9    | 16 | 3.0 | 1.5(4)  |       |       |       | 10430  |      | MUO AOL     | 44   | -6   | +000+0000 |     |
| 53985 | 19 32 29 | 69 33.8   | 44 | 2.3 | 2.3(4)  |       |       |       | 70158  |      | SIG DRA     | 101  | 22   | 700000000 |     |
| 53995 | 19 32 34 | 23 44.8   | 11 | 2.4 | -3.0(6) |       |       |       | 20415  |      | DO 17894    | 59   | 3    | 100000000 |     |



TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA     | ED       | M(4) | M(11) | M(20) | M(27) | IRC    | BS   | COMMENTS   | L   | I   | B          | I | C95 | LOG |
|-------|----------|-----------|--------|----------|------|-------|-------|-------|--------|------|------------|-----|-----|------------|---|-----|-----|
| 53995 | 19 32 43 | 30 40 3   | 18 2.4 | 1.1(-3)  |      |       |       |       | 30375  |      | SVS 101861 | 65  | 5   | 500007077  |   |     |     |
| 54005 | 19 32 54 | 0 36.3    | 9 2.2  | 1.4(-4)  |      |       |       |       | 445    |      | V607 AOL   | 39  | -9  | +60003070  |   |     |     |
| 54015 | 19 32 57 | 60 4.1    | 30 1.9 | 1.6(-4)  |      |       |       |       | 60268  | 7448 | DO 37451   | 92  | 18  | +600010000 |   |     |     |
| 54025 | 19 33 6  | 63 31.2   | 35 2.5 | 1.5(-3)  |      |       |       |       |        |      |            | 95  | 20  | 100007077  |   |     |     |
| 54035 | 19 33 8  | -0 14.5   | 11 4.0 | 1.7(-4)  |      |       |       |       |        |      | V862 AOL   | 33  | -10 | +100007000 |   |     |     |
| 54045 | 19 33 9  | 72 49.4   | 30 1.6 | -1.0(-4) |      |       |       |       |        |      |            | 105 | 23  | +60002200  |   |     |     |
| 54055 | 19 33 21 | 48 7.5    | 22 1.8 | 1.4(-3)  |      |       |       |       |        |      |            | 81  | 13  | 100007000  |   |     |     |
| 54065 | 19 33 26 | 47 11.2   | 22 1.6 | -4(-4)   |      |       |       |       | 445    |      |            | 80  | 13  | +60002200  |   |     |     |
| 54075 | 19 33 43 | -0 35.5   | 16 3.2 | 1.4(-5)  |      |       |       |       | 20418  |      |            | 39  | -10 | 100007000  |   |     |     |
| 54085 | 19 34 38 | 21 36.6   | 10 2.4 | -8(-4)   |      |       |       |       |        |      |            | 57  | 0   | 200007000  |   |     |     |
| 54095 | 19 34 52 | 12 2.6    | 16 3.1 | 1.3(-3)  |      |       |       |       |        |      |            | 49  | -4  | 100007000  |   |     |     |
| 54105 | 19 35 9  | 20 29.3   | 12 4.0 | -9(-5)   |      |       |       |       |        |      |            | 56  | -0  | 100007000  |   |     |     |
| 54115 | 19 35 53 | 6 19.2    | 16 3.0 | 1.6(-4)  |      |       |       |       |        |      | V825 AOL   | 44  | -7  | 100007000  |   |     |     |
| 54125 | 19 36 46 | 30 55.8   | 11 2.3 | 1.8(-4)  |      |       |       |       |        |      | SVS 4763   | 66  | 5   | 500007077  |   |     |     |
| 54135 | 19 36 55 | 16 26.0   | 10 2.5 | -2.5(-4) |      |       |       |       | 20124  | 7475 | CO 17970   | 53  | -3  | 400007010  |   |     |     |
| 54145 | 19 37 2  | 12 3.5    | 12 4.0 | -2.7(-5) |      |       |       |       |        |      | LW AOL     | 49  | -5  | +60000700  |   |     |     |
| 54155 | 19 37 8  | 20 2.9    | 10 1.8 | -3.2(-5) |      |       |       |       |        |      | IC 1305    | 56  | -1  | +600010000 |   |     |     |
| 54165 | 19 37 32 | 30 3.9    | 9 2.0  | -1.5(-4) |      |       |       |       | 20422  |      | PHI CYG    | 65  | 4   | 500007077  |   |     |     |
| 54175 | 19 38 27 | 32 42.7   | 18 2.3 | 1.8(-3)  |      |       |       |       | 30380  | 7478 |            | 67  | 5   | 100007000  |   |     |     |
| 54185 | 19 40 11 | 59 30.2   | 30 2.3 | 1.6(-3)  |      |       |       |       |        |      |            | 92  | 17  | 100007000  |   |     |     |
| 54195 | 19 40 33 | 42 6.2    | 14 2.0 | -1.2(-4) |      |       |       |       | 40359  |      |            | 76  | 9   | 400007070  |   |     |     |
| 54205 | 19 41 6  | 53 46.6   | 29 2.2 | 1.5(-4)  |      |       |       |       |        |      |            | 81  | 17  | 100007000  |   |     |     |
| 54215 | 19 41 40 | 23 4.8    | 9 2.2  | 1.5(-3)  |      |       |       |       | 20429  |      |            | 59  | -0  | 100007000  |   |     |     |
| 54225 | 19 42 1  | 14 36.2   | 16 2.8 | 1.7(-4)  |      |       |       |       | 10436  |      | V482 AOL   | 52  | -5  | 100007000  |   |     |     |
| 54235 | 19 42 2  | 43 41.7   | 23 3.2 | 1.5(-4)  |      |       |       |       | 50306  |      | RT CYG     | 82  | 12  | 700017000  |   |     |     |
| 54245 | 19 42 7  | 37 15.1   | 19 2.2 | 1.7(-3)  |      |       |       |       | 40361  | 7517 | 15 CYG     | 72  | 7   | 100007000  |   |     |     |
| 54255 | 19 42 13 | 32 23.3   | 19 2.6 | 1.1(-3)  |      |       |       |       |        |      | 10 CYG     | 68  | 4   | +600010000 |   |     |     |
| 54265 | 19 42 19 | 41 39.9   | 20 2.0 | 2.0(-4)  |      |       |       |       | 40360  | 7514 | DO 37664   | 76  | 9   | 100007000  |   |     |     |
| 54275 | 19 42 36 | -0 51.8   | 15 3.2 | 1.1(-3)  |      |       |       |       |        |      | SVS 4795   | 38  | -12 | 050007000  |   |     |     |
| 54285 | 19 42 38 | 50 55.5   | 24 3.2 | 2.1(-4)  |      |       |       |       | 50307  |      | DO 37672   | 84  | 13  | 100007000  |   |     |     |
| 54295 | 19 42 51 | 33 15.5   | 9 2.0  | -5(-4)   |      |       |       |       |        |      | V859 CYG   | 68  | 5   | 700007077  |   |     |     |
| 54305 | 19 43 15 | 58 12.6   | 28 1.9 | 1.4(-3)  |      |       |       |       | 60271  |      | DO 37697   | 91  | 15  | +60007000  |   |     |     |
| 54315 | 19 43 27 | 31 21.3   | 13 1.8 | 1.5(-4)  |      |       |       |       | 30390  |      | EQ CYG     | 57  | 3   | 100007000  |   |     |     |
| 54325 | 19 43 38 | 30 7.0    | 10 1.8 | 1.2(-4)  |      |       |       |       | 30391  |      | DO 18133   | 66  | 3   | 200007077  |   |     |     |
| 54335 | 19 44 15 | -17 12.2  | 10 3.9 | 1.0(-4)  |      |       |       |       | -20574 |      | SVS 8290   | 23  | -20 | 610007000  |   |     |     |
| 54345 | 19 44 50 | 53 5.0    | 25 3.2 | -8(-4)   |      |       |       |       |        |      |            | 86  | 14  | 900007000  |   |     |     |
| 54355 | 19 45 10 | 15 55.0   | 13 4.0 | -1.4(-4) |      |       |       |       |        |      | V446 AOL   | 54  | -5  | +60007000  |   |     |     |
| 54365 | 19 45 14 | 59 28.4   | 14 1.8 | -1.0(-4) |      |       |       |       |        |      | SVS 4826   | 92  | 17  | +60007000  |   |     |     |
| 54375 | 19 46 4  | 23 46.6   | 17 2.7 | -2.1(-4) |      |       |       |       |        |      |            | 63  | -1  | 600007070  |   |     |     |
| 54385 | 19 46 46 | 26 3.3    | 18 2.7 | 1.5(-3)  |      |       |       |       | 30392  |      |            | 61  | 0   | 100007000  |   |     |     |
| 54395 | 19 46 54 | 30 18.5   | 18 2.5 | 1.4(-3)  |      |       |       |       |        |      | ER CYG     | 65  | 2   | 100007000  |   |     |     |
| 54405 | 19 47 13 | 21 27.2   | 17 2.9 | 1.9(-4)  |      |       |       |       | 30393  |      | DO 18198   | 59  | -2  | +600010000 |   |     |     |
| 54415 | 19 48 24 | 26 12.5   | 18 2.7 | 1.5(-4)  |      |       |       |       | 20436  |      | DO 18218   | 63  | -0  | 100007000  |   |     |     |
| 54425 | 19 49 15 | 22 24.1   | 17 2.8 | -9(-4)   |      |       |       |       | 30394  |      |            | 60  | -2  | 200007070  |   |     |     |
| 54435 | 19 49 20 | 52 51.8   | 24 1.7 | 1.7(-4)  |      |       |       |       | 50310  | 7576 | 20 CYG     | 86  | 13  | 700007000  |   |     |     |
| 54445 | 19 49 40 | -0 32.9   | 12 4.0 | 1.1(-4)  |      |       |       |       | 456    |      | V1051 AOL  | 40  | -14 | 010007000  |   |     |     |
| 54455 | 19 50 4  | 0 40.3    | 12 4.0 | 1.4(-4)  |      |       |       |       | 457    | 7570 | ETA AOL    | 41  | -13 | 010007000  |   |     |     |
| 54465 | 19 50 13 | 42 22.4   | 11 1.6 | -1.8(-3) |      |       |       |       |        |      |            | 77  | 8   | 400007000  |   |     |     |
| 54475 | 19 51 5  | 29 30.5   | 18 2.6 | 1.4(-4)  |      |       |       |       | 30397  |      | EV CYG     | 65  | 1   | 100007000  |   |     |     |
| 54485 | 19 51 16 | 33 50.0   | 19 2.4 | 1.5(-4)  |      |       |       |       | 30398  |      | V449 CYG   | 70  | 3   | 100007000  |   |     |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | FA     | ED | B(4)     | M(11) | M(20)    | M(27) | IRC    | BS   | COMMENTS   | L 11 | B 11 | OBS       | LOG |
|-------|----------|-----------|--------|----|----------|-------|----------|-------|--------|------|------------|------|------|-----------|-----|
|       | H M S    | O S       |        |    |          |       |          |       |        |      |            |      |      |           |     |
| 54418 | 19 51 21 | 8 43.7    | 11 4.0 |    | 1.4(.3)  |       |          |       | -10526 | 7584 | 56 AOL     | 32   | -18  | 010007000 |     |
| 54425 | 19 52 48 | 6 16.1    | 16 3.0 |    | 2.0(.4)  |       |          |       | 10444  | 7602 | BET AOL    | 46   | -11  | 100007000 |     |
| 54735 | 19 53 0  | 23 15.2   | 12 2.0 |    | 1.6(.3)  |       |          |       |        |      | HW VUL     | 61   | -2   | 100001000 |     |
| 54435 | 19 53 38 | 15 28.3   | 12 2.1 |    | 1.2(.4)  |       |          |       | 20441  |      | V468 CYG   | 54   | -7   | 400001070 |     |
| 54445 | 19 53 50 | 32 36.7   | 18 2.5 |    | 1.7(.4)  |       | -2.8(.4) |       | 30400  |      | DO 18366   | 69   | -2   | 300007077 |     |
| 54455 | 19 54 41 | 17 12.1   | 9 1.9  |    |          |       |          |       | 20442  |      | DO 18366   | 58   | -6   | 400002040 |     |
| 24785 | 19 54 55 | 33 53.6   | 19 2.4 |    | 1.5(.4)  |       | -2.8(.4) |       | 20443  |      | DO 18377   | 70   | 3    | 700002077 |     |
| 54465 | 19 55 17 | 24 6.9    | 17 2.8 |    |          |       |          |       | 75     |      | V1016 CYG  | 62   | -2   | 700001000 |     |
| 54475 | 19 55 32 | 39 41.4   | 20 2.2 |    | 1.3(.4)  |       |          |       | -10527 |      | RS AOL     | 33   | -19  | 070001000 |     |
| 54485 | 19 56 12 | 8 4.4     | 15 3.3 |    |          |       |          |       |        |      | SVS 4941   | 50   | -10  | 100007000 |     |
| 54495 | 19 56 20 | 10 12.0   | 16 2.8 |    | 1.6(.3)  |       |          |       | 460    |      |            | 37   | -17  | 100007000 |     |
| 54505 | 19 57 10 | 4 7.3     | 12 4.0 |    | 1.5(.4)  |       |          |       | -20578 |      |            | 25   | -22  | 010003000 |     |
| 54515 | 19 57 10 | 16 35.9   | 11 3.9 |    | 1.5(.4)  |       |          |       |        |      |            | 28   | -21  | 020003000 |     |
| 24875 | 19 57 43 | -13 40.1  | 12 4.0 |    |          |       |          |       |        |      |            | 50   | -11  | 060007040 |     |
| 54525 | 19 57 55 | 9 28.2    | 14 4.1 |    |          |       | -3.5(.4) |       |        |      | SHARP. 101 | 72   | 3    | 400007040 |     |
| 54535 | 19 57 57 | 35 9.2    | 12 2.3 |    |          |       | -2.8(.4) |       |        |      |            | 32   | -20  | 070003000 |     |
| 24895 | 19 58 41 | -10 5.7   | 15 3.3 |    |          |       | -3.2(.4) |       | 40372  |      | AM CYG     | 76   | 5    | 100007077 |     |
| 54545 | 19 59 9  | 40 1.6    | 12 2.3 |    | 1.6(.4)  |       |          |       | 30408  |      | DO 18490   | 68   | 0    | 500007077 |     |
| 54555 | 20 0 10  | 30 39.5   | 18 2.6 |    | 1.7(.4)  |       | -2.8(.4) |       | 50314  |      | Z CYG      | 84   | 10   | +00012000 |     |
| 54565 | 20 0 14  | 49 54.8   | 16 1.9 |    | 1.3(.4)  |       |          |       |        |      |            |      |      |           |     |
| 54575 | 20 0 26  | 4 33.4    | 16 3.1 |    | 1.4(.4)  |       |          |       | 463    |      | GC 27796   | 46   | -14  | 000001000 |     |
| 24095 | 20 1 30  | 21 22.1   | 12 1.9 |    | 1.5(.4)  |       |          |       | 20450  |      | GC 27818   | 60   | -5   | 100001000 |     |
| 54585 | 20 2 5   | 44 34.4   | 21 2.1 |    | 1.7(.5)  |       |          |       | 40378  |      |            | 80   | 7    | 10007000  |     |
| 54595 | 20 2 59  | 44 40.4   | 21 2.1 |    | 1.5(.4)  |       |          |       | 40381  |      |            | 80   | 7    | 10007000  |     |
| 54605 | 20 3 4   | 19 50.7   | 17 2.7 |    | 1.6(.4)  |       | -2.7(.5) |       | 20453  | 7678 | ETA SGE    | 59   | -6   | 500007070 |     |
| 54615 | 20 4 19  | 24 18.3   | 17 2.6 |    | 1.3(.3)  |       |          |       | 20456  |      | OK VUL     | 63   | -4   | 100007000 |     |
| 54625 | 20 4 36  | 61 51.7   | 33 2.4 |    | 1.7(.4)  |       |          |       | 60279  | 7701 | 66 ORA     | 95   | 16   | 700071000 |     |
| 54635 | 20 4 42  | 13 10.1   | 16 2.8 |    | 1.6(.4)  |       |          |       | 10449  |      | DO 6463    | 54   | -10  | 10007000  |     |
| 54645 | 20 4 49  | 67 52.7   | 40 2.0 |    | 1.4(.5)  |       |          |       | 70182  | 7704 | DO 38091   | 101  | 19   | 700071000 |     |
| 54655 | 20 5 8   | 52 52.6   | 26 2.3 |    | 2.1(.4)  |       |          |       |        |      | V761 CYG   | 87   | -1   | 700071000 |     |
| 54665 | 20 5 54  | 16 30.8   | 16 2.8 |    | 1.8(.4)  |       |          |       | 20457  | 7896 | DO 18592   | 57   | -9   | 100007000 |     |
| 54675 | 20 6 22  | -1 48.1   | 16 4.3 |    | 1.8(.4)  |       | -3.9(.4) |       | 60281  |      | DO 38112   | 41   | -18  | 000003040 |     |
| 54685 | 20 6 36  | 56 25.4   | 26 1.8 |    | 1.8(.4)  |       |          |       |        |      |            | 91   | 13   | 10007000  |     |
| 54695 | 20 6 41  | 33 6.2    | 10 2.8 |    |          |       |          |       | 71     |      |            | 71   | 0    | +00007022 |     |
| 54705 | 20 6 43  | -25 41.4  | 12 3.9 |    | 1.6(.4)  |       |          |       | -30427 |      |            | 17   | -28  | 010003000 |     |
| 54715 | 20 6 55  | 36 48.1   | 13 2.4 |    | 1.5(.4)  |       |          |       | 40388  |      | DO 18628   | 74   | -2   | 100007000 |     |
| 54725 | 20 7 49  | 28 11.6   | 18 2.4 |    | 1.0(.4)  |       |          |       | 30414  |      | SVS 101948 | 67   | -3   | +00001000 |     |
| 54735 | 20 8 7   | 29 13.0   | 18 2.4 |    | 1.5(.4)  |       | -3.6(.4) |       | 30416  |      | R CAP      | 68   | -2   | 500007077 |     |
| 54745 | 20 8 34  | -14 27.2  | 11 3.9 |    | 1.4(.4)  |       |          |       |        |      | SVS 5058   | 29   | -24  | 010007000 |     |
| 54755 | 20 8 35  | 48 41.5   | 16 1.9 |    |          |       |          |       |        |      |            | 84   | 8    | 200027000 |     |
| 54765 | 20 8 39  | 33 18.1   | 10 1.8 |    | 1.4(.4)  |       |          |       | 30417  |      |            | 71   | -0   | 50007077  |     |
| 25185 | 20 8 49  | -7 48.0   | 10 2.6 |    |          |       | -3.4(.4) |       |        |      |            | 35   | -21  | 020004000 |     |
| 54775 | 20 8 54  | 73 50.9   | 56 2.4 |    | -1.7(.3) |       | -3.5(.4) |       |        |      |            | 107  | 21   | 200072000 |     |
| 54785 | 20 9 3   | -8 17.3   | 12 4.0 |    | -1.3(.4) |       |          |       |        |      | EO         | 35   | -22  | 060007000 |     |
| 54795 | 20 9 12  | -11 51.8  | 9 2.2  |    | -1.3(.4) |       | -3.1(.4) |       |        |      |            | 31   | -23  | 070006000 |     |
| 54805 | 20 9 21  | -0 47.9   | 15 4.1 |    | -1.8(.4) |       | -3.4(.4) |       |        |      |            | 42   | -18  | 000007040 |     |
| 54815 | 20 9 26  | -0 34.7   | 11 2.5 |    |          |       | -3.0(.4) |       |        |      |            | 42   | -18  | 000007050 |     |
| 54825 | 20 9 32  | 36 26.6   | 19 2.4 |    | 1.9(.4)  |       | -4.2(.9) |       | 40392  |      | V515 AOL   | 74   | -2   | 100007000 |     |
| 25215 | 20 9 41  | 9 46.8    | 9 2.3  |    | 1.0(.3)  |       |          |       |        |      | V428 CYG   | 51   | -13  | 000001000 |     |
| 25255 | 20 10 56 | 32 5.0    | 13 1.7 |    |          |       |          |       | 30420  |      | V557 CYG   | 70   | -1   | 200002077 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)      | M(11)     | M(20)     | M(27) | IRC    | BS   | COMMENTS   | L I | B I | OBS.       | LOG |
|-------|----------|-----------|----|-----|-----------|-----------|-----------|-------|--------|------|------------|-----|-----|------------|-----|
| 54835 | 20 11 5  | 25 5.1    | 17 | 2.6 | 1.6(1.3)  | -1.2(1.4) |           |       | 30421  |      | SVS 101959 | 65  | -5  | 100007000  |     |
| 54835 | 20 11 20 | 18 48.3   | 9  | 2.0 |           | -5(1.5)   | -2.0(1.5) |       | 40395  |      | V431 CYG   | 59  | -8  | 200007070  |     |
| 54848 | 20 11 25 | 41 11.4   | 10 | 2.0 |           |           | -3.0(1.5) |       |        |      | CO SCE     | 78  | -4  | 600007060  |     |
| 54855 | 20 11 44 | 17 34.1   | 18 | 2.8 | 1.1(1.3)  |           |           |       | 60284  | 7742 | GC 28120   | 58  | -9  | 50000+070  |     |
| 54855 | 20 12 32 | 60 29.3   | 30 | 1.9 | 1.6(1.4)  |           |           |       | 30422  |      |            | 95  | -14 | 100077000  |     |
| 54865 | 20 13 7  | 29 38.1   | 18 | 2.4 | 1.4(1.4)  |           |           |       |        |      | V432 CYG   | 69  | -3  | 100077000  |     |
| 54865 | 20 13 40 | 36 53.0   | 14 | 1.6 | 1.7(1.4)  |           |           |       | -20584 |      |            | 75  | -1  | 100001000  |     |
| 54875 | 20 13 43 | 18 32.7   | 16 | 3.4 | 1.2(1.3)  |           | -2.8(1.6) |       | 30424  | 7744 | 23 VUL     | 25  | -27 | 0+0005000  |     |
| 54885 | 20 13 51 | 27 40.0   | 18 | 2.6 | 1.3(1.4)  |           |           |       | -10532 |      | V499 AQL   | 67  | -4  | 200001000  |     |
| 54895 | 20 13 57 | 7 19.1    | 15 | 3.3 | 1.6(1.4)  |           |           |       |        |      |            | 35  | -22 | 070001000  |     |
| 54935 | 20 14 10 | 80        | 9  | 62  | 1.6(1.4)  |           |           |       | 80039  |      | BD CEP     | 113 | 23  | 703771100  |     |
| 54935 | 20 14 39 | 49 51.4   | 23 | 3.4 | 1.8(1.4)  | -1.0(1.4) |           |       |        |      | SVS 101973 | 88  | -8  | 700037000  |     |
| 54915 | 20 14 41 | 6 54.7    | 16 | 3.3 | 1.2(1.3)  |           |           |       | 10462  |      | DO 6615    | 49  | -15 | 000001000  |     |
| 54925 | 20 15 31 | 72 26.3   | 29 | 2.2 | 1.4(1.4)  |           |           |       | 70164  |      | DO 38265   | 106 | 20  | 200071700  |     |
| 54935 | 20 15 36 | 26 38.0   | 14 | 1.6 | 1.7(1.4)  | -5(1.4)   |           |       |        |      | SHARP, 104 | 75  | -1  | 200030770  |     |
| 54935 | 20 15 46 | 15 3.7    | 11 | 3.9 | 1.4(1.3)  |           |           |       |        |      |            | 29  | -26 | 01000+000  |     |
| 54935 | 20 15 59 | 37 51.6   | 12 | 2.3 |           | -1.5(1.4) |           |       |        |      | P CYG      | 76  | -1  | 700002027  |     |
| 54935 | 20 16 8  | 43 9.2    | 15 | 1.5 | 1.8(1.4)  |           |           |       |        |      | BRIGHT NEB | 80  | 4   | 100001700  |     |
| 54945 | 20 16 10 | 42 35.2   | 21 | 2.4 | 1.7(1.4)  |           |           |       | 40402  | 7762 | GC 28214   | 80  | 4   | 200007100  |     |
| 54955 | 20 16 24 | 37 19.1   | 19 | 2.2 | 1.5(1.4)  |           |           |       | 40403  |      | MX CYG     | 75  | -1  | 100007000  |     |
| 54965 | 20 17 12 | 38 50.4   | 19 | 2.3 | 1.4(1.4)  |           |           |       | 40404  |      | DO 18850   | 77  | 2   | 700001000  |     |
| 54975 | 20 20 52 | 18 11.5   | 17 | 2.9 | 1.0(1.3)  |           |           |       | 20465  |      | DO 18930   | 60  | -11 | 000001000  |     |
| 54985 | 20 20 59 | 7 48.3    | 16 | 3.2 | 1.3(1.3)  |           |           |       | 10465  |      | DO 6712    | 51  | -16 | 000001000  |     |
| 54995 | 20 21 14 | 35 41.7   | 19 | 2.3 | 1.7(1.4)  |           |           |       | 40413  |      |            | 75  | -0  | 100007000  |     |
| 55005 | 20 21 45 | 2 52.8    | 15 | 4.1 |           | -3.0(1.5) |           |       |        |      |            | 41  | -22 | 070007040  |     |
| 55015 | 20 22 9  | 37 27.0   | 11 | 1.6 | -1.4(1.4) |           | -3.4(1.4) |       |        |      |            | 76  | -8  | 20000705+  |     |
| 55025 | 20 22 23 | 24 7.3    | 17 | 2.7 |           |           |           |       |        |      |            | 55  | -8  | 4000070+0  |     |
| 55025 | 20 22 53 | 58 40.6   | 28 | 1.8 | 1.5(1.4)  |           |           |       | 60290  |      | DO 38400   | 94  | 12  | 100077000  |     |
| 55035 | 20 22 57 | 16 49.9   | 9  | 2.2 | 1.5(1.3)  |           |           |       | 20467  |      | DO 18962   | 59  | -12 | 000001000  |     |
| 55045 | 20 23 12 | 55 2.1    | 26 | 1.9 | 2.6(1.4)  |           |           |       | 60289  |      | V1195 CYG  | 91  | 10  | 100077000  |     |
| 55055 | 20 23 19 | 23 50.7   | 17 | 2.7 | 1.7(1.4)  |           |           |       | 20468  |      | IK VUL     | 65  | -8  | 100007000  |     |
| 55055 | 20 23 25 | 23 45.8   | 10 | 1.9 | 1.5(1.3)  |           | -2.2(1.6) |       |        |      | AV VUL EO  | 73  | -2  | 500007077  |     |
| 55055 | 20 24 2  | 26 5.3    | 18 | 2.9 | 1.0(1.4)  |           |           |       | 30432  |      | HFE 64     | 67  | -7  | +000010000 |     |
| 55075 | 20 24 59 | 40 9.8    | 14 | 1.6 | -1.5(1.4) |           | -2.8(1.6) |       |        |      |            | 79  | -1  | 40000+277  |     |
| 55085 | 20 25 16 | 15 52.5   | 10 | 2.6 | 1.2(1.4)  |           | -3.9(1.5) |       | -20588 |      |            | 29  | -28 | 010004000  |     |
| 55095 | 20 26 50 | 41 43.0   | 20 | 2.2 | 1.5(1.4)  |           |           |       | 40423  |      | V506 CYG   | 80  | 2   | 100007700  |     |
| 55105 | 20 29 7  | 44 45.0   | 21 | 2.1 | 1.3(1.3)  |           |           |       | 40426  |      |            | 83  | 3   | 100007700  |     |
| 55115 | 20 29 49 | 18 26.7   | 17 | 2.9 | 1.4(1.4)  |           |           |       | 20471  |      | DO 19088   | 62  | -12 | 000001000  |     |
| 55125 | 20 30 29 | 56 35.4   | 27 | 2.0 | 1.6(1.4)  |           |           |       | 60293  | 7860 | GC 28589   | 93  | 10  | 200071000  |     |
| 55135 | 20 31 9  | 54 44.9   | 26 | 1.8 | 1.6(1.4)  |           |           |       | 50332  |      | ST CYG     | 91  | 9   | 100077000  |     |
| 55145 | 20 31 36 | 2 9.4     | 15 | 4.1 |           | -2.5(1.5) |           |       | 481    |      | SVS 5204   | 47  | -22 | 000007040  |     |
| 55155 | 20 32 8  | 19 22.1   | 17 | 3.1 | 1.5(1.4)  |           | -2.6(1.5) |       | 20473  |      | DO 19132   | 63  | -12 | 000001000  |     |
| 55165 | 20 32 17 | 29 6.0    | 12 | 2.4 | 1.7(1.4)  |           |           |       | 30438  |      | FG VUL     | 70  | -7  | +000010400 |     |
| 55175 | 20 32 44 | 52 51.2   | 14 | 1.5 | -1.8(1.6) |           | -3.7(1.5) |       |        |      | V1199 CYG  | 90  | -8  | 200044000  |     |
| 55185 | 20 32 45 | 28 24.0   | 18 | 2.7 | 1.4(1.4)  |           |           |       | 30440  |      | SA VUL     | 70  | -7  | 200001000  |     |
| 55195 | 20 33 34 | 42 23.5   | 12 | 1.2 |           | -3(1.4)   | -3.2(1.5) |       |        |      | HFE 67 EO  | 81  | 1   | 400002200  |     |
| 55205 | 20 33 41 | 61 36.4   | 31 | 1.8 | 1.6(1.5)  |           |           |       | 60295  |      | DO 38642   | 97  | 13  | 700077100  |     |
| 55215 | 20 33 59 | 34 57.3   | 19 | 2.4 | 1.4(1.4)  |           |           |       | 30441  |      |            | 76  | -3  | 200007100  |     |
| 55225 | 20 34 2  | 61 9.7    | 31 | 1.8 | 1.5(1.5)  |           |           |       | 60294  |      | MX CYG     | 97  | 12  | 700077100  |     |
| 55235 | 20 34 22 | 32 14.0   | 13 | 1.8 | 1.7(1.4)  |           | -4.0(1.5) |       |        |      | SVS 5232   | 73  | -5  | 1000075++  |     |

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| GL   | RA(1950) | DEC(1950) | LA | ED  | P(4)     | M(11) | M(27) | IRC    | BS | COMMENTS  | L 11 | B 11 | OBS.      | LOG |
|------|----------|-----------|----|-----|----------|-------|-------|--------|----|-----------|------|------|-----------|-----|
|      |          |           |    |     |          |       |       |        |    |           |      |      |           |     |
| 5235 | 20 35 28 | 59 53.7   | 21 | 1.9 | 2.3(.5)  |       |       |        |    | V778 CYG  | 96   | 11   | 700007100 |     |
| 5235 | 20 35 53 | 33 34.5   | 11 | 2.3 | 1.7(.4)  |       |       | 30443  |    | DO 19312  | 75   | -4   | 700007174 |     |
| 5235 | 20 35 56 | 36 39.9   | 16 | 2.3 | 1.2(.3)  |       |       | 40436  |    | DO 19211  | 77   | -3   | 700007170 |     |
| 5275 | 20 36 16 | 68 23.8   | 43 | 3.0 | 1.9(.4)  |       |       | 70167  |    | DO 38684  | 103  | 16   | 700007100 |     |
| 5285 | 20 36 29 | 37 43.1   | 20 | 2.4 | 1.4(.4)  |       |       | 40477  |    | FF CYG    | 78   | -2   | 700007100 |     |
| 5295 | 20 37 0  | 44 53.6   | 22 | 2.2 | 1.8(.4)  |       |       | 40438  |    | V1201 CYG | 84   | 2    | 700007100 |     |
| 5295 | 20 37 55 | 50 2      | 17 | 1.4 | -1.5(.4) |       |       |        |    |           | 88   | 5    | 700007200 |     |
| 5305 | 20 38 25 | 59 19.6   | 28 | 3.4 | 1.5(.4)  |       |       | 60296  |    | UU CEP    | 96   | 11   | 700007200 |     |
| 5315 | 20 38 51 | 52 52.1   | 24 | 3.5 | 1.4(.3)  |       |       |        |    |           | 90   | 7    | 700007200 |     |
| 5345 | 20 39 43 | 62 17.4   | 23 | 1.7 | -6(.4)   |       |       |        |    |           | 99   | 12   | 700007200 |     |
| 5325 | 20 41 18 | 11 40.4   | 15 | 4.0 | -1.4(.4) |       |       |        |    |           | 57   | -18  | 000007060 |     |
| 5335 | 20 41 28 | 27 4.4    | 17 | 2.5 | 1.4(.4)  |       |       | 30446  |    | DO 19302  | 70   | -9   | 000007100 |     |
| 5345 | 20 42 29 | 72 12.2   | 34 | 1.1 | 1.5(.4)  |       |       |        |    | DV CEP    | 107  | 18   | 10077100  |     |
| 5355 | 20 42 40 | 32 20.2   | 12 | 2.3 | -1.1(.4) |       |       |        |    | V570 CYG  | 75   | -6   | 000007222 |     |
| 5365 | 20 43 2  | 54 4.3    | 27 | 2.7 | 1.4(.3)  |       |       |        |    |           | 92   | 7    | 700007100 |     |
| 5375 | 20 43 13 | 40 13.9   | 19 | 2.1 | 1.6(.4)  |       |       | 40445  |    | DO 38781  | 81   | -2   | 700007100 |     |
| 5395 | 20 43 18 | 67 12.2   | 23 | 1.7 | -1.5(.5) |       |       |        |    | FI CEP    | 102  | 15   | 700007100 |     |
| 5425 | 20 43 20 | 42 9.1    | 14 | 1.6 | 1.5(.4)  |       |       | 40446  |    |           | 82   | -0   | 100007100 |     |
| 5435 | 20 43 23 | 32 17.1   | 18 | 2.5 | 1.4(.4)  |       |       | 30449  |    | V829 CYG  | 75   | -7   | 000007100 |     |
| 5405 | 20 44 3  | 29 58.1   | 18 | 2.4 | 1.6(.4)  |       |       | 30452  |    | DO 19406  | 73   | -8   | 000007100 |     |
| 5415 | 20 44 15 | 2 15.7    | 14 | 4.0 | 1.1(.3)  |       |       | 491    |    | V AOR     | 49   | -24  | 010007000 |     |
| 5415 | 20 44 47 | -3 57.9   | 13 | 3.9 | 2.0(.3)  |       |       |        |    |           | 43   | -27  | 010007000 |     |
| 5425 | 20 44 54 | 45 50.1   | 22 | 2.1 | 1.6(.5)  |       |       | 50340  |    | CY CYG    | 85   | 2    | 700007100 |     |
| 5435 | 20 45 12 | 15 37.8   | 17 | 3.3 | 1.7(.4)  |       |       | 40449  |    |           | 81   | -2   | 100007200 |     |
| 5445 | 20 45 36 | 35 40.7   | 19 | 2.3 | 1.6(.4)  |       |       | 20483  |    | GU DEL    | 61   | -17  | 000007100 |     |
| 5455 | 20 45 53 | 44 14.2   | 15 | 1.6 | 1.5(.5)  |       |       | 40450  |    | V375 CYG  | 78   | -5   | 000007100 |     |
| 5465 | 20 47 4  | 40 49.7   | 19 | 2.1 | 1.0(.3)  |       |       |        |    | IC 5567   | 84   | 1    | 400007400 |     |
| 5465 | 20 47 23 | -3 12.3   | 13 | 3.9 | 1.5(.3)  |       |       | 40481  |    | DO 38865  | 82   | -2   | 700007100 |     |
| 5475 | 20 47 25 | 32 3.7    | 18 | 2.6 | 1.1(.3)  |       |       | 30456  |    | DO 19483  | 45   | -28  | 010007000 |     |
| 5485 | 20 47 59 | 50 34.9   | 17 | 1.4 | -1.0(.4) |       |       |        |    |           | 76   | -7   | 000007100 |     |
| 5495 | 20 48 5  | 39 38.2   | 19 | 2.1 | 1.5(.4)  |       |       | 50344  |    | DO 38893  | 89   | 4    | 700007200 |     |
| 5505 | 20 48 42 | -3 21.4   | 14 | 3.9 | 2.0(.4)  |       |       | 40485  |    |           | 81   | -3   | 700007100 |     |
| 5515 | 20 50 6  | -7 58.9   | 14 | 4.0 | 1.5(.4)  |       |       | 40485  |    | DO 7038   | 45   | -28  | 010007000 |     |
| 5525 | 20 53 11 | 35 1.6    | 10 | 2.7 | -1.5(.4) |       |       | -10552 |    |           | 40   | -30  | 010007000 |     |
| 5535 | 20 51 0  | 29 29.6   | 18 | 2.6 | 1.8(.4)  |       |       |        |    |           | 78   | -6   | 000007115 |     |
| 5535 | 20 51 8  | 20 44.0   | 17 | 2.6 | -1.2(.4) |       |       | 7999   |    | DO 19589  | 73   | -10  | 000007100 |     |
| 5545 | 20 51 9  | 32 55.3   | 18 | 2.3 | 1.8(.4)  |       |       | 20491  |    | DO 19588  | 66   | -15  | 000007100 |     |
| 5545 | 20 52 8  | 33 15.4   | 12 | 2.3 | 1.3(.5)  |       |       | 30481  |    | GC 29155  | 76   | -7   | 000007100 |     |
| 5555 | 20 54 11 | 8 37.4    | 15 | 4.0 | 1.3(.3)  |       |       | 10481  |    | DO 7077   | 57   | -23  | 010007000 |     |
| 5565 | 20 55 29 | 25 20.9   | 9  | 1.9 | -1.9(.5) |       |       |        |    |           | 71   | -13  | 000007100 |     |
| 5575 | 20 56 16 | 22 7.5    | 17 | 3.0 | 1.0(.4)  |       |       | 20494  |    | VW VUL    | 68   | -15  | 000007100 |     |
| 5585 | 20 56 26 | 47 28.1   | 23 | 2.3 | 2.0(.4)  |       |       | 50352  |    | DM CYG    | 68   | 1    | 100007200 |     |
| 5595 | 20 56 56 | 36 31.8   | 19 | 2.2 | 2.1(.5)  |       |       | 40459  |    | DO 19789  | 80   | -6   | 000007100 |     |
| 5605 | 20 56 59 | 41 7.4    | 20 | 2.1 | 1.2(.4)  |       |       |        |    | DO 39067  | 83   | -3   | 000007100 |     |
| 5605 | 20 58 6  | 13 26.0   | 14 | 3.9 | -2.8(.5) |       |       | 10483  |    | SN DEL    | 61   | -21  | 000007100 |     |
| 5615 | 20 58 18 | 19 8.4    | 16 | 2.6 | 1.5(.5)  |       |       | 20497  |    | GC 29329  | 66   | -17  | 000007100 |     |
| 5625 | 20 58 35 | 59 14.7   | 29 | 2.0 | 1.5(.4)  |       |       | 60302  |    | GC 29330  | 97   | 9    | 10007700  |     |
| 5635 | 20 59 7  | 49 56.2   | 23 | 1.8 | 2.0(.5)  |       |       | 50354  |    |           | 90   | 3    | 700007100 |     |
| 5645 | 20 59 12 | -4 22.3   | 14 | 3.9 | 1.3(.7)  |       |       | 498    |    | DO 7129   | 45   | -31  | 010007000 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA  | ED  | M(1)     | M(20) | M(27)    | IRC    | RS   | COMMENTS  | L II | B II | Obs. Log  |
|-------|----------|-----------|-----|-----|----------|-------|----------|--------|------|-----------|------|------|-----------|
|       | H M S    | D M S     | S   | S   |          |       |          |        |      |           |      |      |           |
| 55555 | 20 59 13 | 45 10.8   | 15  | 2.6 | 1.5(.4)  |       |          | 50353  |      |           | 87   | -1   | 000001700 |
| 55565 | 20 59 34 | 16 46.9   | 12  | 2.0 | 1.5(.4)  |       |          | 20498  |      | DO 19850  | 66   | -18  | 000001100 |
| 55575 | 20 59 55 | -10 11.9  | 15  | 3.7 | 1.5(.4)  |       |          | -10555 |      | GC 29385  | 39   | -34  | 070001000 |
| 55585 | 21 0 30  | 34 34.6   | 19  | 2.2 | 1.6(.5)  |       |          | 30466  |      | V1058 CVG | 79   | -8   | 000002100 |
| 55595 | 21 0 47  | 48 1.9    | 23  | 2.3 | 1.6(.4)  |       |          |        |      |           | 89   | -1   | 500002700 |
| 55705 | 21 0 52  | 14 33.6   | 16  | 2.6 | 1.8(.4)  |       | -3.1(.4) | 10484  | 8087 | DO 19890  | 83   | -21  | 000003100 |
| 55925 | 21 0 53  | -2 32.9   | 15  | 3.6 | 1.5(.3)  |       |          | 30488  |      | DO 19905  | 47   | -30  | 070001000 |
| 55715 | 21 0 55  | 27 6.8    | 18  | 2.9 | 1.5(.4)  |       |          | 80303  |      |           | 73   | -13  | 000001700 |
| 26035 | 21 0 56  | 59 30.2   | 17  | 1.7 | 1.5(.3)  |       | -9(.4)   |        |      |           | 97   | 9    | 200011700 |
| 26965 | 21 2 11  | 25 34.9   | 17  | 2.4 | 1.1(.4)  |       |          |        |      |           | 72   | -14  | 000002100 |
| 55725 | 21 2 22  | 5 21.0    | 16  | 3.6 | 1.4(.4)  |       |          | 10485  | 8068 | 3 EQU     | 55   | -26  | 000001000 |
| 55735 | 21 2 47  | 42 14.3   | 20  | 2.4 | 1.5(.4)  |       | -3.9(.4) | 40467  |      | V1059 CVG | 85   | -3   | 000005700 |
| 27015 | 21 3 11  | -18 19.7  | 15  | 3.6 | 1.6(.4)  |       | -3.1(.4) |        |      |           | 30   | -38  | 070005070 |
| 27055 | 21 3 40  | 7 38.7    | 11  | 2.7 | 1.5(.4)  |       |          | 10486  |      | Y EQU     | 57   | -25  | 010001000 |
| 55745 | 21 3 8   | 7 10.1    | 15  | 3.9 |          |       |          |        |      |           | 57   | -26  | 000004060 |
| 55755 | 21 6 2   | 4 44.7    | 15  | 3.9 | -1.3(.4) |       | -3.2(.4) |        |      |           | 35   | -27  | 070004060 |
| 55765 | 21 6 3   | 32 1.2    | 18  | 2.5 | -1.7(.4) |       | -3.3(.5) |        |      | CT CVG    | 76   | -10  | 000002777 |
| 55775 | 21 6 9   | 66 44.7   | 38  | 1.9 | -9(.4)   |       |          |        |      |           | 103  | 13   | 100777700 |
| 55785 | 21 7 12  | -28 53.1  | 16  | 3.7 | 1.7(.4)  |       |          | -30442 |      | GC 29577  | 16   | -42  | 000001000 |
| 27185 | 21 7 32  | 37 42.8   | 18  | 2.1 | 1.1(.3)  |       | -3.7(.5) |        |      |           | 82   | -7   | 000005700 |
| 55795 | 21 8 22  | 4 51.0    | 14  | 3.9 | 1.8(.4)  |       |          |        |      | IC 1360   | 55   | -28  | 010007000 |
| 55805 | 21 9 3   | 67 5.0    | 27  | 2.2 |          |       | -1.8(.4) |        |      | V579 CVG  | 104  | 13   | +00647+00 |
| 55815 | 21 9 22  | 44 0.0    | 21  | 1.9 | 2.1(.4)  |       | -2.7(.4) | 40473  |      | V528 CVG  | 87   | -3   | 000007100 |
| 55825 | 21 10 4  | 41 39.3   | 20  | 2.4 |          |       | -9(.4)   |        |      |           | 85   | -4   | 000002700 |
| 55835 | 21 10 24 | 79 7.2    | 82  | 2.4 | 1.9(.3)  |       |          | 80043  |      | SVS 5385  | 114  | 21   | 700177700 |
| 55845 | 21 10 24 | 75 41.4   | 60  | 3.5 | 1.8(.4)  |       |          |        |      |           | 111  | 19   | 700177700 |
| 55855 | 21 11 8  | 58 50.2   | 27  | 2.3 | 1.6(.3)  |       |          |        |      | SVS 5386  | 56   | 5    | 100002700 |
| 27245 | 21 11 11 | 70 51.4   | 27  | 1.6 |          |       | -1.1(.4) |        |      | V472 CVG  | 107  | 15   | 700242300 |
| 55865 | 21 11 21 | 31 53.8   | 10  | 1.7 |          |       | -8(.4)   |        |      | SVS 5381  | 78   | -11  | 000002447 |
| 55875 | 21 11 47 | 42 44.4   | 20  | 2.0 |          |       | -3.9(.4) |        |      |           | 86   | -4   | 000004700 |
| 55885 | 21 12 3  | -0 8.6    | 14  | 3.9 | 1.2(.3)  |       |          | 902    | 9181 | DO 7263   | 51   | -31  | 010007000 |
| 55895 | 21 12 20 | 82 33.6   | 118 | 3.5 | 1.6(.3)  |       |          | 60306  |      | DO 39362  | 116  | 23   | 700177700 |
| 55905 | 21 12 50 | 61 40.3   | 24  | 2.0 | 1.5(.4)  |       | -3.5(.4) | 40475  | 8130 | TAU CVG   | 100  | 9    | 100047000 |
| 55915 | 21 12 58 | 37 49.5   | 18  | 1.5 | 2.0(.4)  |       |          |        |      |           | 83   | -7   | 000001700 |
| 27265 | 21 13 0  | -1 19.2   | 14  | 3.9 |          |       | -1.0(.4) |        |      |           | 50   | -32  | 020004070 |
| 55925 | 21 13 11 | 46 13.7   | 23  | 2.8 | 1.4(.3)  |       |          | 50386  |      | DO 39351  | 89   | -2   | 000001700 |
| 55935 | 21 13 26 | 8 6.2     | 16  | 2.7 | 1.5(.3)  |       |          | 10480  |      | T EQU     | 60   | -26  | 000007100 |
| 55945 | 21 13 45 | 38 1.3    | 18  | 1.5 | 1.4(.4)  |       | -5(.4)   |        |      | V478 CVG  | 83   | -7   | 000003700 |
| 55955 | 21 14 0  | 57 23.6   | 25  | 3.6 | 1.3(.3)  |       |          |        |      |           | 97   | 6    | 700017200 |
| 55965 | 21 14 25 | 36 38.3   | 18  | 1.5 | 1.6(.4)  |       |          | 40476  |      | DO 20208  | 82   | -8   | 000001700 |
| 55975 | 21 14 27 | -20 35.1  | 12  | 2.7 |          |       | -1.8(.4) |        |      |           | 29   | -41  | 020004020 |
| 27325 | 21 14 40 | 8 27.3    | 16  | 3.6 | -1.1(.4) |       | -3.5(.4) |        |      |           | 80   | -27  | 000002770 |
| 27335 | 21 14 47 | 41 45.6   | 10  | 2.3 |          |       |          | 80388  |      | DO 39381  | 86   | -5   | 000004700 |
| 55985 | 21 15 3  | 49 46.3   | 23  | 1.6 | 1.4(.5)  |       |          |        |      | RY EQU    | 92   | 1    | 000007100 |
| 27345 | 21 15 9  | 11 13.7   | 17  | 3.5 | 1.1(.3)  |       |          |        |      | V589 CVG  | 62   | -25  | 000001700 |
| 55995 | 21 15 35 | 47 53.2   | 16  | 1.7 |          |       | -7(.4)   |        |      |           | 90   | -1   | 000002200 |
| 56005 | 21 16 1  | -68 49.7  | 46  | 3.6 |          |       | -3.2(.4) |        |      |           | 325  | -38  | 000000040 |
| 27365 | 21 16 5  | -1 27.6   | 14  | 3.9 |          |       | -3.6(.4) |        |      |           | 51   | -33  | 010007000 |
| 56015 | 21 16 9  | -13 20.4  | 17  | 3.8 |          |       |          |        |      |           | 38   | -38  | 070007040 |
| 27415 | 21 16 37 | 19 52.7   | 18  | 3.3 | 1.0(.3)  |       |          |        |      |           | 70   | -20  | 000001700 |

TABLE OF OBSERVATIONS

| GL    | RA(1980) | DEC(1950) | EA | ED  | M(4)    | M(11)    | M(20)    | M(27)    | IPC    | IS   | COMMENTS   | L   | I   | B | I | OBS.      | LOG |
|-------|----------|-----------|----|-----|---------|----------|----------|----------|--------|------|------------|-----|-----|---|---|-----------|-----|
|       |          |           |    |     |         |          |          |          |        |      |            |     |     |   |   |           |     |
| 56025 | 21 16 41 | 40 46.3   | 20 | 1.9 |         |          |          |          |        |      | V1007 CYG  | 84  | -6  |   |   | 00000207  |     |
| 56035 | 21 17 0  | 17 2.0    | 11 | 2.3 | 1.4(.4) | -4(.4)   | -3.1(.8) |          |        |      |            | 68  | -22 |   |   | 000007340 |     |
| 27445 | 21 17 3  | 8 21.4    | 16 | 3.6 | 1.2(.3) | -7(.4)   |          |          |        |      |            | 60  | -28 |   |   | 000001700 |     |
| 56045 | 21 17 4  | 23 16.9   | 17 | 2.4 | 1.1(.4) |          |          |          | 20504  |      | SVS 8648   | 73  | -18 |   |   | 000007100 |     |
| 56055 | 21 17 50 | 62 16.0   | 30 | 3.6 | 1.5(.3) |          |          |          | 60314  |      | CS CEP     | 101 | 9   |   |   | 000017700 |     |
| 56065 | 21 19 33 | 56 9.3    | 28 | 1.6 | 1.3(.4) |          |          |          | 60316  |      |            | 97  | 5   |   |   | 000002100 |     |
| 56075 | 21 19 50 | 57 11.6   | 27 | 1.6 |         | -3(.4)   |          |          |        |      | BRIGHT MER | 98  | 5   |   |   | 000002200 |     |
| 56085 | 21 19 50 | 19 35.4   | 16 | 2.5 | 1.3(.4) |          |          |          | 20505  | 8173 | 1 PEG      | 70  | -21 |   |   | 000007100 |     |
| 56095 | 21 20 12 | -5 49.2   | 15 | 3.7 | 1.1(.4) |          |          |          | -10560 |      | GC 29917   | 47  | -36 |   |   | 000001000 |     |
| 56105 | 21 20 20 | -9 31.1   | 15 | 3.7 | 1.8(.4) |          |          |          | -10561 | 8175 | 17 AOR     | 43  | -38 |   |   | 000001000 |     |
| 56115 | 21 20 20 | -19 53.2  | 16 | 3.6 |         |          | -2.9(.5) | -6.4(.8) |        |      |            | 30  | -42 |   |   | 0000+050  |     |
| 56125 | 21 20 29 | 17 22.3   | 13 | 3.6 | 1.8(.4) |          |          |          | -10563 |      | RZ AOR     | 45  | -37 |   |   | 010007000 |     |
| 27625 | 21 23 38 | 16 5.4    | 17 | 3.5 | 1.2(.3) |          |          |          |        |      |            | 68  | -24 |   |   | 000001700 |     |
| 27635 | 21 23 40 | -31 18.1  | 16 | 3.8 |         |          | -3.7(.4) |          |        |      |            | 15  | -45 |   |   | 000004000 |     |
| 56135 | 21 23 53 | -24 10.2  | 19 | 3.7 |         |          | -3.6(.5) |          |        |      |            | 25  | -44 |   |   | 000007040 |     |
| 56145 | 21 25 5  | 13 54.9   | 16 | 2.6 | 1.3(.4) |          |          |          | 10495  |      | SVS 8658   | 66  | -26 |   |   | 000007370 |     |
| 56155 | 21 25 26 | 36 27.9   | 10 | 2.1 | 1.5(.4) | -7(.4)   | -3.7(.6) |          | 40483  |      |            | 84  | -10 |   |   | 000000104 |     |
| 56165 | 21 25 44 | 7 55.5    | 16 | 3.6 | 1.2(.4) |          |          |          | 10496  | 8318 | GC 30060   | 61  | -29 |   |   | 000001700 |     |
| 56175 | 21 26 4  | 24 27.1   | 11 | 2.2 | 1.0(.4) |          | -2.6(.5) |          | 20510  |      | DO 20469   | 75  | -18 |   |   | 000000140 |     |
| 27705 | 21 26 54 | 51 2.5    | 26 | 3.3 |         |          | -3.8(.4) |          |        |      |            | 94  | 0   |   |   | 000004700 |     |
| 56185 | 21 27 38 | 55 11.6   | 28 | 3.5 | 1.4(.4) | -1.1(.4) |          |          |        |      | SVS 102106 | 97  | 3   |   |   | 000003+00 |     |
| 56195 | 21 28 4  | 47 7.4    | 21 | 1.7 | 1.1(.4) | -1.1(.4) |          |          | 50381  |      | BM CYG     | 91  | -3  |   |   | 000003000 |     |
| 56205 | 21 28 5  | -14 20.3  | 15 | 3.6 | 1.2(.3) |          |          |          | -10564 |      |            | 38  | -42 |   |   | 000001000 |     |
| 27745 | 21 28 20 | 12 44.2   | 17 | 3.2 | 1.6(.4) |          |          |          | 10497  |      | FT PEG     | 66  | -27 |   |   | 000001100 |     |
| 56215 | 21 28 46 | 12 56.7   | 17 | 3.6 |         | -7(.4)   |          |          |        |      | BRIGHT MER | 65  | -27 |   |   | 0000027+0 |     |
| 56225 | 21 28 59 | 50 27.9   | 13 | 2.1 |         | -1.1(.4) | -3.6(.4) |          |        |      |            | 94  | -0  |   |   | 000006700 |     |
| 56235 | 21 29 25 | 61 27.8   | 19 | 2.0 | 1.6(.5) | -3(.4)   | -3.2(.6) |          | 60320  |      | DO 39718   | 101 | 8   |   |   | 000022500 |     |
| 56245 | 21 29 48 | 0 33.0    | 10 | 2.6 | 1.5(.4) | -4(.4)   |          |          |        |      |            | 55  | -35 |   |   | 000003770 |     |
| 27785 | 21 30 14 | 74 30.4   | 39 | 2.1 |         |          | -3.8(.4) |          |        |      |            | 111 | 17  |   |   | 000003770 |     |
| 56255 | 21 31 32 | 56 32.3   | 30 | 3.6 |         | -2.0(.4) | -3.1(.4) |          |        |      |            | 98  | 4   |   |   | 000006700 |     |
| 56265 | 21 32 19 | -68 6.2   | 24 | 2.6 |         | -1.6(.4) |          |          |        |      |            | 238 | -41 |   |   | 000000030 |     |
| 27835 | 21 32 20 | 13 39.9   | 17 | 3.6 | 1.1(.3) |          |          |          |        |      |            | 87  | -27 |   |   | 000001700 |     |
| 56275 | 21 33 29 | 60 39.0   | 21 | 3.1 | 1.6(.4) | -1.3(.4) |          |          | 60321  |      | SVS 8444   | 101 | 7   |   |   | 000027100 |     |
| 56285 | 21 33 55 | 32 17.1   | 16 | 2.0 | 1.2(.4) |          |          |          | 30475  |      |            | 82  | -14 |   |   | 000000100 |     |
| 56295 | 21 35 2  | -35 20.3  | 13 | 2.6 |         | -3.5(.4) |          |          |        |      |            | 10  | -46 |   |   | 000004540 |     |
| 56305 | 21 35 58 | 9 1.6     | 17 | 3.9 | 1.2(.3) |          |          |          | 505    |      | DO 7528    | 51  | -39 |   |   | 000001700 |     |
| 56315 | 21 36 43 | 8 4.1     | 17 | 3.8 | 1.7(.4) |          |          |          | 10501  |      | DO 7532    | 84  | -31 |   |   | 000001700 |     |
| 56325 | 21 36 43 | 8 4.1     | 16 | 2.7 | 1.5(.4) |          |          |          | 10500  |      | EM PEG     | 63  | -32 |   |   | 000007100 |     |
| 56335 | 21 37 26 | 44 56.3   | 21 | 1.7 | 1.4(.4) |          |          |          | 40487  |      | V539 CYG   | 91  | -6  |   |   | 000000100 |     |
| 56345 | 21 38 5  | -7 36.5   | 16 | 3.7 |         | -3.3(.5) |          |          |        |      |            | 47  | -41 |   |   | 000007240 |     |
| 56355 | 21 38 43 | 65 35.4   | 37 | 2.4 | 1.7(.3) |          |          |          | 70172  |      | DO 39529   | 105 | 10  |   |   | 000177700 |     |
| 27915 | 21 38 47 | 51 30.7   | 24 | 1.8 | 1.4(.4) |          |          |          | 50389  |      | SVS 5461   | 96  | -1  |   |   | 000000100 |     |
| 56365 | 21 40 43 | 22 13.7   | 17 | 3.5 | 1.3(.4) |          |          |          | 20517  |      | VX PEG     | 76  | -23 |   |   | 010000700 |     |
| 27975 | 21 40 50 | 61 31.4   | 19 | 1.7 | 1.7(.4) |          | -3.7(.4) |          | 60324  |      |            | 102 | 7   |   |   | 0004+1100 |     |
| 56375 | 21 41 42 | 71 1.9    | 42 | 3.7 | 1.4(.4) |          |          |          | 70175  | 8317 | 11 CEP     | 105 | 14  |   |   | 700+17700 |     |
| 28015 | 21 42 8  | 17 4.6    | 12 | 2.2 | 1.4(.3) |          |          |          | 20518  | 8313 | 9 PEG      | 72  | -27 |   |   | 010000100 |     |
| 56385 | 21 43 28 | 67 21.6   | 35 | 3.7 |         |          | -3.4(.4) |          |        |      |            | 107 | 11  |   |   | 000747700 |     |
| 56395 | 21 43 48 | 22 44.7   | 17 | 2.3 | 1.5(.5) |          |          |          | 20519  | 8321 | 12 PEG     | 77  | -23 |   |   | 000000100 |     |
| 56405 | 21 44 0  | 65 36.7   | 37 | 2.4 | 1.3(.3) |          |          |          |        |      |            | 105 | 10  |   |   | 000177700 |     |
| 56415 | 21 44 48 | 25 17.4   | 17 | 2.4 | 1.3(.5) |          |          |          | 30479  |      | CT PEG     | 79  | -21 |   |   | 000000100 |     |

TABLE OF OBSERVATIONS

| GL    | RA (J2000) | DEC (J2000) | EA  | ED  | M(4)    | M(11)    | M(20)    | M(27)    | IRC     | IS   | COMMENTS   | L II | B II | OBS. LOG   |
|-------|------------|-------------|-----|-----|---------|----------|----------|----------|---------|------|------------|------|------|------------|
| 56423 | 21 46 10   | 42 6.2      | 20  | 1.7 | 1.5(-4) | -1.4(-8) | -3.4(-5) |          | 40495   | 8339 | DO 40142   | 91   | -9   | 070000100  |
| 56425 | 21 46 15   | 60 27.5     | 15  | 1.6 | 1.7(-3) |          |          |          | 60329   |      | 12 CEP     | 102  | 5    | 000152100  |
| 56435 | 21 47 13   | 72 45.4     | 80  | 2.6 | 1.5(-5) |          |          |          | 80050   |      | DO 40173   | 115  | 19   | 700+77100  |
| 56445 | 21 49 42   | 74 35.9     | 32  | 2.0 | 1.8(-4) | -0.6(-4) | -2.7(-5) |          |         |      | SVS 102123 | 112  | 16   | 100+42700  |
| 56455 | 21 49 44   | 46 34.0     | 10  | 2.4 |         |          | -3.3(-5) |          |         |      |            | 352  | -50  | 000000040  |
| 56455 | 21 50 42   | 82 34.8     | 26  | 3.7 | 1.5(-4) | -7.7(-8) |          |          | 80051   |      | GC 30681   | 104  | 7    | 000+37700  |
| 56455 | 21 52 30   | 78 19.0     | 48  | 2.0 | 1.8(-3) |          | -2.8(-5) |          | -10572  |      |            | 115  | 20   | 710577700  |
| 56475 | 21 53 43   | -9 51.9     | 8   | 2.1 | 1.3(-4) | -7.7(-8) |          |          | 20524   | 8372 | DO 21021   | 47   | -45  | 07000+370  |
| 56485 | 21 54 7    | 21 0.0      | 10  | 2.5 | 1.5(-4) |          | -3.0(-4) |          |         |      |            | 77   | -26  | 010000700  |
| 56495 | 21 54 39   | -66 45.5    | 41  | 3.1 |         |          |          |          |         |      |            | 325  | -43  | 000000040  |
| 56505 | 21 54 42   | 39 41.5     | 19  | 1.8 | 1.1(-4) |          |          |          | 40498   |      | SVS 102138 | 90   | -12  | 000000100  |
| 56515 | 21 56 11   | -15 18.9    | 14  | 3.9 | 1.6(-4) |          |          |          | -20613  |      |            | 41   | -48  | 000001700  |
| 56525 | 21 56 13   | 85 54.0     | 38  | 2.2 | 1.5(-3) |          |          |          | 70180   |      | DO 40491   | 107  | 3    | 000177700  |
| 56535 | 21 56 32   | -25 30.0    | 18  | 3.3 |         | -3.2(-5) | -7.0(-8) |          |         |      |            | 26   | -52  | 000007050  |
| 56545 | 21 57 23   | -42 6.1     | 11  | 2.3 |         | -3.7(-7) | -3.5(-4) |          |         |      |            | 359  | -52  | 000000060  |
| 56555 | 21 57 42   | 76 11.6     | 63  | 2.0 | 1.6(-3) |          |          |          | 60336   |      | GM CEP     | 113  | 17   | 700177700  |
| 56565 | 21 57 52   | 57 7.3      | 29  | 2.5 | 1.5(-4) |          |          |          | 80053   |      | DO 40578   | 101  | 2    | 000102700  |
| 28295 | 21 58 36   | 76 25.5     | 37  | 1.8 | 1.4(-4) |          | -2.9(-5) |          | 10506   | 8393 | 19 PEG     | 113  | 17   | 110+42700  |
| 56575 | 21 58 38   | 8 6         | 14  | 3.1 | 1.2(-4) | -8.1(-4) |          |          | 10505   |      | V PEG      | 67   | -36  | 070003770  |
| 56585 | 21 58 38   | 5 52.9      | 11  | 2.7 | 1.8(-4) | -8.1(-5) |          |          |         |      |            | 65   | -37  | 010002770  |
| 56595 | 21 59 0    | 48 16.8     | 23  | 2.7 | 1.7(-4) |          |          |          | 50414   |      | DO 40575   | 96   | -5   | 000100770  |
| 28345 | 22 0 20    | 54 29.5     | 19  | 1.7 | 1.4(-4) |          |          |          | 50416   |      | DO CYG     | 100  | -0   | 000103100  |
| 56605 | 22 1 39    | -30 6.8     | 14  | 3.9 | 1.7(-4) | -1.1(-4) |          |          | -30450  | 8405 | 13 PSA     | 19   | -53  | 030003770  |
| 56615 | 22 1 46    | -35 53.4    | 15  | 3.9 | 1.3(-4) |          |          |          | -30494E |      |            | 9    | -54  | 000001000  |
| 56625 | 22 2 36    | 14 34.8     | 16  | 3.5 | 1.2(-4) |          |          |          | 10508   |      | GC 30883   | 74   | -32  | 017300700  |
| 56635 | 22 2 41    | 67 31.2     | 40  | 2.1 | 1.3(-3) |          |          |          |         |      |            | 108  | 10   | 000177700  |
| 28415 | 22 3 9     | 59 53.5     | 22  | 2.3 | 1.3(-4) |          |          |          |         |      |            | 104  | 4    | 000101700  |
| 56645 | 22 3 13    | -39 44.3    | 11  | 2.3 | 1.9(-4) | -9.9(-5) | -0.1(-8) |          | -30495E | 8411 | LAM GRU    | 2    | -54  | 000000060  |
| 56655 | 22 3 25    | 62 33.9     | 33  | 2.2 | 1.9(-4) |          |          |          | 60339   | 8426 | 20 CEP     | 105  | 6    | 070177700  |
| 28465 | 22 3 34    | 10 18.8     | 16  | 3.6 | 1.8(-4) | -7.7(-4) |          |          |         |      |            | 70   | -33  | 030000770  |
| 56655 | 22 4 13    | -0 40.6     | 15  | 2.9 | 1.6(-5) |          |          |          | 514     |      | UN AOR     | 60   | -42  | 070007100  |
| 56675 | 22 4 23    | 25 5.7      | 17  | 2.3 | 1.2(-4) |          |          |          | 30485   | 8430 | 101 PEG    | 82   | -24  | 000000100  |
| 56685 | 22 4 28    | 61 38.1     | 100 | 1.7 | 1.5(-3) |          |          |          |         |      | GO CEP     | 117  | 21   | 700177700  |
| 28495 | 22 4 33    | 41 37.1     | 19  | 1.7 | 1.6(-4) |          |          |          |         |      |            | 93   | -11  | 000000100  |
| 56695 | 22 4 39    | -40 39.2    | 11  | 2.3 |         | -7.7(-8) | -1.6(-8) | -6.9(-8) |         |      |            | 1    | -54  | 000000070  |
| 56705 | 22 4 46    | 48 13.7     | 23  | 2.6 | 1.5(-4) |          |          |          | 50418   |      | CT LAC     | 97   | 6    | 000100700  |
| 28535 | 22 5 28    | 17 31.3     | 18  | 2.6 | 1.1(-4) |          |          |          |         |      |            | 77   | -30  | 070000100  |
| 56715 | 22 5 30    | 47 28.7     | 23  | 2.6 | 1.6(-4) |          |          |          | 50419   |      | DO LAC     | 97   | -7   | 000100700  |
| 56725 | 22 5 31    | -34 49.3    | 10  | 2.2 | 1.7(-4) | -3.1(-4) |          |          | -30498E |      | CC 30953   | 11   | -54  | 030005040  |
| 56735 | 22 5 49    | 44 45.7     | 21  | 1.9 | 1.0(-4) |          |          |          |         |      | BM LAC     | 95   | -9   | 000+00100  |
| 56745 | 22 9 31    | 38 10.7     | 20  | 2.9 | 1.5(-4) |          |          |          | 40504   |      |            | 92   | -15  | 010000700  |
| 56755 | 22 9 43    | 24 43.5     | 18  | 3.5 | 1.8(-4) |          |          |          | 20530   | 8466 | GC 31064   | 83   | -25  | 010000700  |
| 56765 | 22 9 59    | 5 38.9      | 14  | 3.7 | 1.3(-3) |          |          |          |         |      |            | 56   | -46  | 010007700  |
| 56775 | 22 11 47   | 53 20.7     | 26  | 2.3 | 1.7(-4) |          |          |          | 50423   |      |            | 101  | -2   | 000700100  |
| 28745 | 22 13 45   | 3 6.0       | 11  | 2.7 | 1.7(-4) |          | -3.9(-4) |          |         |      |            | 66   | -42  | 010004770  |
| 56785 | 22 14 13   | -8 1.7      | 10  | 2.5 | 1.9(-4) |          |          |          | -10578  | 8499 | THE AOR    | 54   | -49  | 070001200  |
| 56795 | 22 14 14   | 47 28.5     | 22  | 2.1 | 1.4(-4) |          |          |          |         |      | AV LAC     | 98   | -7   | 030+00100  |
| 28765 | 22 14 57   | 66 45.7     | 19  | 1.7 | 1.9(-4) |          |          |          |         |      | BM CEP     | 109  | 9    | 000122100  |
| 56805 | 22 15 9    | -10 17.2    | 16  | 3.5 |         | -5.1(-4) | -4.1(-4) |          |         |      |            | 51   | -50  | 000007+40  |
| 56815 | 22 15 37   | 61 17.3     | 20  | 2.4 |         | -3.3(-4) |          |          |         |      | BRIGHT NEB | 106  | 4    | 0000704700 |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)    | M(11)    | M(20)    | M(27) | IRC | BS | COMMENTS   | L 11 | B 11 | OBS.      | LOC |
|-------|----------|-----------|----|-----|---------|----------|----------|-------|-----|----|------------|------|------|-----------|-----|
|       |          |           |    |     |         |          |          |       |     |    |            |      |      |           |     |
| 56825 | 22 16 54 | 51 11.4   | 24 | 2.2 | 5(.4)   |          |          |       |     |    | UU TUC     | 100  | -5   | 000+00100 |     |
| 56825 | 22 18 38 | -51 5.6   | 32 | 2.5 |         |          | -2.8(.5) |       |     |    |            | 329  | -48  | 000+00100 |     |
| 56825 | 22 19 40 | -51 1.1   | 23 | 2.2 |         |          |          |       |     |    |            | 343  | -53  | 000+00100 |     |
| 56825 | 22 21 43 | 35 46.0   | 10 | 1.3 | 1.9(.4) | -1.9(.4) |          |       |     |    | NGC 7276   | 92   | -18  | 000+00100 |     |
| 56825 | 22 21 46 | 51 58.2   | 25 | 2.4 | 1.6(.5) | -1.2(.5) |          |       |     |    | BET LAC    | 101  | -4   | 000+00100 |     |
| 56825 | 22 22 56 | 51 1.0    | 14 | 1.5 | 1.9(.4) |          | -3.6(.5) |       |     |    | AC LAC     | 101  | -5   | 000+00100 |     |
| 56825 | 22 23 9  | 68 46.6   | 41 | 1.9 | 1.8(.3) |          |          |       |     |    |            | 110  | 10   | 000+00100 |     |
| 56825 | 22 23 12 | -48 40.2  | 23 | 2.4 |         | -1.6(.4) |          |       |     |    | S GRU      | 348  | -55  | 000+00100 |     |
| 56825 | 22 24 10 | 63 3.1    | 24 | 2.5 | 1.6(.3) |          |          |       |     |    | DO 41365   | 107  | 5    | 000+00100 |     |
| 56825 | 22 25 39 | 43 52.3   | 22 | 2.7 | 1.3(.4) |          |          |       |     |    | GC 31393   | 97   | -12  | 010+00100 |     |
| 56825 | 22 25 51 | 31 34.9   | 10 | 2.2 | 1.7(.4) |          |          |       |     |    | DO 21496   | 91   | -22  | 000+00100 |     |
| 56825 | 22 26 6  | -65 41.5  | 38 | 2.6 |         | -3.1(.8) |          |       |     |    |            | 323  | -46  | 000+00100 |     |
| 56825 | 22 26 57 | 40 2.2    | 19 | 2.0 | 1.5(.4) | -3.4(.4) |          |       |     |    | S LAC      | 96   | -15  | 000+00100 |     |
| 56825 | 22 27 37 | 34 28.9   | 10 | 2.1 |         |          |          |       |     |    |            | 93   | -20  | 000+00100 |     |
| 56825 | 22 27 52 | -5 40.0   | 15 | 3.7 |         | -3.6(.5) |          |       |     |    |            | 59   | -50  | 04000+000 |     |
| 56825 | 22 28 6  | 12 49.6   | 15 | 3.4 | 1.3(.3) | -3.6(.4) |          |       |     |    | CM PEG     | 78   | -37  | 01000+000 |     |
| 56825 | 22 28 20 | 37 16.4   | 18 | 1.9 | 1.8(.5) |          |          |       |     |    | DO 21536   | 94   | -17  | 000+00100 |     |
| 56825 | 22 28 41 | -31 56.1  | 13 | 3.9 | 1.8(.5) |          |          |       |     |    |            | 15   | -59  | 000+00100 |     |
| 56825 | 22 30 59 | 0 57.7    | 15 | 3.6 | 1.8(.4) | -1.6(.4) |          |       |     |    | DO 7836    | 68   | -46  | 01000+000 |     |
| 56825 | 22 31 19 | 58 11.2   | 29 | 2.2 |         | -2.9(.4) |          |       |     |    | SHARP 138  | 106  | 0    | 000+00100 |     |
| 56825 | 22 31 36 | 65 40.7   | 27 | 2.4 | 1.2(.3) |          |          |       |     |    |            | 110  | 8    | 010+00100 |     |
| 56825 | 22 32 8  | 56 21.8   | 19 | 1.6 | 1.6(.4) | -2.5(.4) |          |       |     |    | BA LAC     | 105  | -1   | 000+00100 |     |
| 56825 | 22 33 29 | -7 50.8   | 19 | 3.2 | 2.0(.4) |          |          |       |     |    | SVS 102190 | 58   | -52  | 000+00100 |     |
| 56825 | 22 34 22 | 48 3.0    | 23 | 2.4 | 1.7(.4) |          |          |       |     |    | BY LAC     | 101  | -9   | 000+00100 |     |
| 56825 | 22 34 31 | 52 20.7   | 23 | 2.4 | 1.5(.4) |          |          |       |     |    | AK LAC     | 103  | -5   | 000+00100 |     |
| 56825 | 22 34 36 | 65 34.7   | 28 | 3.6 | 1.6(.4) |          | -2.5(.8) |       |     |    |            | 110  | 7    | 000+00100 |     |
| 56825 | 22 35 53 | -14 18.0  | 10 | 2.4 | 1.6(.3) | -1.6(.4) |          |       |     |    | AB AQR     | 49   | -56  | 000+00100 |     |
| 56825 | 22 36 28 | 72 48.8   | 32 | 2.1 | 1.7(.4) | -3.2(.4) |          |       |     |    |            | 113  | 13   | 000+00100 |     |
| 56825 | 22 36 47 | 20 53.0   | 17 | 2.6 | 1.6(.4) |          |          |       |     |    |            | 86   | -32  | 000+00100 |     |
| 56825 | 22 36 56 | -61 50.9  | 32 | 2.3 |         | -2.7(.8) |          |       |     |    | T TUC      | 328  | -49  | 000+00100 |     |
| 56825 | 22 38 6  | 44 16.9   | 22 | 2.5 | 1.5(.4) |          |          |       |     |    |            | 100  | -13  | 000+00100 |     |
| 56825 | 22 38 54 | 10 45.4   | 15 | 3.4 | 1.6(.4) | -2.8(.8) |          |       |     |    | 11 LAC     | 78   | -41  | 000+00100 |     |
| 56825 | 22 39 21 | 30 41.6   | 18 | 2.8 | 1.5(.4) |          |          |       |     |    | DO 21574   | 83   | -24  | 000+00100 |     |
| 56825 | 22 39 38 | -29 35.1  | 12 | 3.9 | 1.0(.3) |          |          |       |     |    | DO 21574   | 21   | -62  | 000+00100 |     |
| 56825 | 22 40 12 | 53 38.2   | 19 | 1.8 | 1.5(.4) |          |          |       |     |    | DO 41817   | 105  | -4   | 000+00100 |     |
| 56825 | 22 40 44 | 77 13.5   | 59 | 4.1 | 1.5(.3) |          |          |       |     |    | SVS 5606   | 116  | 16   | 000+00100 |     |
| 56825 | 22 41 36 | 41 33.4   | 12 | 2.3 | 1.7(.4) | -2.8(.8) |          |       |     |    | 13 LAC     | 99   | -15  | 000+00100 |     |
| 56825 | 22 42 49 | 46 53.0   | 16 | 1.6 | 1.7(.4) | -1.6(.4) |          |       |     |    | DO 41913   | 102  | -10  | 000+00100 |     |
| 56825 | 22 42 50 | 6 37.0    | 15 | 3.5 | 1.7(.4) |          |          |       |     |    |            | 76   | -44  | 000+00100 |     |
| 56825 | 22 43 6  | 56 18.6   | 27 | 2.1 |         |          |          |       |     |    | DV LAC.ED  | 106  | -2   | 010+00100 |     |
| 56825 | 22 43 6  | 52 18.9   | 25 | 2.3 | 2.0(.4) |          |          |       |     |    |            | 104  | -6   | 000+00100 |     |
| 56825 | 22 43 38 | -10 36.4  | 13 | 4.1 | 1.1(.4) |          |          |       |     |    | OC 31749   | 57   | -58  | 000+00100 |     |
| 56825 | 22 43 48 | 11 24.9   | 10 | 2.6 | 1.2(.4) | -4.3(.8) |          |       |     |    | IC 1451    | 55   | -57  | 000+00100 |     |
| 56825 | 22 44 10 | 11 55.3   | 15 | 3.4 | 2.1(.4) |          |          |       |     |    | GC 31765   | 81   | -40  | 010+00100 |     |
| 56825 | 22 45 20 | 12 2.8    | 15 | 3.4 |         |          |          |       |     |    | XL PEG     | 82   | -40  | 02000+000 |     |
| 56825 | 22 45 46 | 61 0.0    | 18 | 2.2 | 1.4(.4) | -1.3(.4) |          |       |     |    | GR CEP     | 109  | 2    | 000+00100 |     |
| 56825 | 22 46 9  | 49 19.1   | 24 | 2.5 | 1.4(.4) |          |          |       |     |    | DO 41988   | 103  | -9   | 010+00100 |     |
| 56825 | 22 46 10 | 32 3.2    | 18 | 2.7 | 1.5(.3) |          |          |       |     |    |            | 95   | -24  | 000+00100 |     |
| 56825 | 22 46 10 | 18 18.2   | 17 | 2.7 | 1.2(.4) |          |          |       |     |    |            | 86   | -35  | 000+00100 |     |
| 56825 | 22 47 26 | 58 26.1   | 31 | 3.0 | 1.0(.4) |          |          |       |     |    | CV CEP     | 106  | 0    | 000+00100 |     |



TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)      | M(11) | M(20)    | M(27)    | IRC    | IS   | COMMENTS | L II | B II | OBS.      | LOG |
|-------|----------|-----------|----|-----|-----------|-------|----------|----------|--------|------|----------|------|------|-----------|-----|
| 57195 | 22 47 28 | -40 8 7   | 21 | 2.8 |           |       |          |          |        |      |          | 359  | -62  | 000007040 |     |
| 57205 | 22 48 14 | 17 38.6   | 17 | 2.7 | 1.4(1.4)  |       | -2.7(.5) |          |        |      | SA PEG   | 97   | -36  | 070000100 |     |
| 57225 | 22 49 7  | 7 1.0     | 15 | 3.5 | 1.2(1.3)  |       |          |          |        |      |          | 78   | -45  | 010000700 |     |
| 57235 | 22 49 15 | 47 49.7   | 23 | 2.4 | 1.9(1.3)  |       |          |          |        |      |          | 103  | -10  | 000100700 |     |
| 57215 | 22 49 45 | 52 8      | 26 | 2.9 | 1.5(1.4)  |       |          |          | 50448  |      | CL LAC   | 105  | -6   | 000000100 |     |
| 57285 | 22 49 56 | 17 29.0   | 17 | 2.7 | 1.3(1.4)  |       |          |          |        |      | DO 21822 | 87   | -37  | 0+0000100 |     |
| 57305 | 22 49 57 | 50 42.2   | 17 | 1.8 | 1.7(1.4)  |       |          |          | 50449  |      | FO LAC   | 105  | -8   | 000100100 |     |
| 57305 | 22 50 25 | 53 27.3   | 17 | 1.7 | 1.6(1.3)  |       |          |          | 50450  |      | DO 42118 | 104  | -8   | 010100700 |     |
| 57235 | 22 51 11 | 59 50.5   | 30 | 1.9 | 1.5(1.3)  |       |          |          | 60373  | 8707 | GC 31922 | 109  | 1    | 000100700 |     |
| 57235 | 22 51 57 | 24 5.8    | 17 | 2.4 | 1.7(1.4)  |       |          |          | 20540  |      | DO 21869 | 92   | -31  | 070000100 |     |
| 57245 | 22 52 14 | -9 39.0   | 16 | 3.4 | 1.2(1.5)  |       |          |          | -10589 |      | TT AOR   | 60   | -57  | 000007100 |     |
| 57255 | 22 52 30 | 20 3.4    | 17 | 2.9 |           |       | -5.0(.4) |          |        |      | MGC 7415 | 89   | -35  | 070400000 |     |
| 57265 | 22 53 36 | 20 11.8   | 17 | 2.9 | 1.4(1.3)  |       |          |          |        |      |          | 90   | -35  | 070100700 |     |
| 57275 | 22 54 42 | 54 25.9   | 26 | 2.1 |           |       |          |          |        |      |          | 107  | -5   | 000200000 |     |
| 57275 | 22 54 45 | -53 46.8  | 26 | 2.2 | -1.1(1.4) |       |          |          |        |      |          | 334  | -56  | 000200000 |     |
| 57275 | 22 54 53 | 61 15.5   | 17 | 1.3 | -1.5(1.4) |       |          | -8.7(.8) | 60377  |      |          | 110  | 2    | 010300700 |     |
| 57285 | 22 54 54 | 61 15.5   | 17 | 1.3 | 1.3(1.3)  |       |          |          |        |      |          | 110  | 2    | 000600700 |     |
| 57285 | 22 55 3  | 61 46.9   | 31 | 1.8 | -1.0(1.4) |       |          |          | -30459 |      | BI PEG   | 28   | -65  | 000701700 |     |
| 57285 | 22 55 11 | 26 30.1   | 12 | 3.9 | 1.4(1.4)  |       |          |          | 20542  |      |          | 88   | -37  | 010000700 |     |
| 57285 | 22 55 11 | 17 47.1   | 16 | 3.3 | 1.7(1.4)  |       |          |          |        |      |          | 89   | -35  | 070100700 |     |
| 57305 | 22 55 25 | 19 21.3   | 16 | 2.8 | 1.4(1.3)  |       |          |          |        |      |          |      |      |           |     |
| 30025 | 22 55 51 | 28 20.1   | 12 | 1.8 | 1.1(1.4)  |       |          |          |        |      |          | 95   | -28  | 0+0300200 |     |
| 57315 | 22 56 0  | 64 53.4   | 34 | 1.7 |           |       | -3.9(.4) |          |        |      |          | 111  | 5    | 000477700 |     |
| 57325 | 22 56 10 | 56 42.3   | 14 | 2.0 | 1.3(1.3)  |       |          |          | 60378  |      | DO 42266 | 108  | -3   | 010700700 |     |
| 30035 | 22 56 32 | 24 38.8   | 12 | 1.8 | 1.7(1.4)  |       |          |          | 20544  |      | DO 21933 | 93   | -31  | 070100100 |     |
| 30145 | 22 59 12 | 56 48.6   | 20 | 1.9 | 1.8(1.4)  |       |          |          | 60380  | 8761 | SC 32091 | 108  | -3   | 000100100 |     |
| 57335 | 22 59 42 | 50 32.3   | 24 | 2.2 | 2.1(1.4)  |       |          |          | 50456  |      |          | 100  | -8   | 000100100 |     |
| 57345 | 22 59 56 | -6 52.0   | 13 | 4.1 | 1.6(1.4)  |       |          |          | -10592 | 8763 | 82 AOR   | 66   | -57  | 000001700 |     |
| 57355 | 23 2 5   | 66 57.4   | 37 | 1.8 | 2.1(1.4)  |       |          |          | 70192  | 8779 | GC 32142 | 113  | 6    | 000177700 |     |
| 57355 | 23 2 52  | 28 43.2   | 17 | 2.3 | 1.5(1.5)  |       |          |          | 30505  |      | DO 22014 | 97   | -28  | 070000100 |     |
| 57375 | 23 3 0   | 58 18.2   | 28 | 1.9 | 1.9(1.4)  |       |          |          | 60384  |      |          | 109  | -1   | 000100700 |     |
| 30215 | 23 3 16  | 65 7.9    | 24 | 2.6 | -1.3(1.4) |       |          |          |        |      |          | 112  | 5    | 000+6400  |     |
| 57385 | 23 4 8   | -23 59.3  | 12 | 3.8 | 1.7(1.3)  |       |          |          | -20628 | 8789 | 86 AOR   | 35   | -66  | 000001700 |     |
| 57395 | 23 4 11  | -30 33.3  | 17 | 3.6 | 1.9(1.4)  |       |          |          | -30453 |      |          | 19   | -67  | 000007100 |     |
| 30255 | 23 4 35  | -25 53.8  | 10 | 2.7 | 1.4(1.4)  |       |          |          | -30454 |      | AF SCL   | 31   | -67  | 000001100 |     |
| 30275 | 23 5 2   | 46 6.4    | 16 | 1.9 | 1.5(1.4)  |       |          |          | 50458  | 8804 | 4 AND    | 105  | -13  | 070100100 |     |
| 30325 | 23 6 50  | 75 8.0    | 27 | 1.7 | 1.7(1.4)  |       |          |          | 60056  | 8819 | 81 CEP   | 116  | 14   | 000162400 |     |
| 57405 | 23 7 26  | 60 58.4   | 30 | 1.7 | 1.7(1.5)  |       |          |          | 60388  |      | GU CEP   | 111  | 1    | 000100700 |     |
| 57415 | 23 7 36  | 80 12.8   | 91 | 2.4 | 1.9(1.3)  |       |          |          |        |      |          | 119  | 18   | 070177700 |     |
| 30355 | 23 7 48  | 17 48.0   | 12 | 2.1 | 1.3(1.3)  |       |          |          |        |      |          | 92   | -39  | 070100100 |     |
| 30365 | 23 7 50  | 0 1.9     | 16 | 3.4 | 1.9(1.4)  |       |          |          |        |      |          | 77   | -53  | 000000100 |     |
| 30375 | 23 7 54  | 39 55.2   | 15 | 2.0 | 1.4(1.3)  |       |          |          | 40530  |      |          | 103  | -19  | 010+00100 |     |
| 30385 | 23 8 11  | -11 58.0  | 10 | 2.2 | 1.2(1.3)  |       |          |          |        |      |          | 61   | -62  | 000001700 |     |
| 30405 | 23 8 51  | 0 11.1    | 16 | 3.4 | 1.8(1.4)  |       |          |          |        |      |          | 78   | -53  | 000000100 |     |
| 57425 | 23 10 9  | 13 6.9    | 16 | 3.4 | 1.5(1.3)  |       |          |          | 10530  |      | DO 7962  | 89   | -43  | 010+00700 |     |
| 57435 | 23 10 41 | 8 41.5    | 16 | 3.2 | 1.5(1.4)  |       |          |          |        |      |          | 85   | -47  | 070000100 |     |
| 57445 | 23 10 54 | 12 25.4   | 16 | 3.0 | 1.2(1.3)  |       |          |          |        |      |          | 89   | -44  | 070100700 |     |
| 57455 | 23 11 54 | 29 8.9    | 18 | 3.3 | 1.3(1.3)  |       |          |          |        |      |          | 99   | -29  | 020+00707 |     |
| 30505 | 23 11 54 | -34 9.6   | 11 | 3.8 | 1.4(1.3)  |       |          |          |        |      |          | 9    | -68  | 000001700 |     |
| 57465 | 23 11 58 | 66 16.1   | 18 | 1.7 | 1.4(1.3)  |       |          |          |        |      |          | 113  | 5    | 000177700 |     |
| 57475 | 23 13 11 | 34 27.9   | 19 | 3.1 | 1.5(1.3)  |       |          |          |        |      |          | 101  | -24  | 010+00700 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)     | M(11)    | M(20)    | M(27) | IRC    | BS   | COMMENTS   | L 11 | B 11 | OBS.      | LOG |
|-------|----------|-----------|----|-----|----------|----------|----------|-------|--------|------|------------|------|------|-----------|-----|
|       |          |           |    |     |          |          |          |       |        |      |            |      |      |           |     |
| 3060S | 23 14 27 | -28 43.9  | 10 | 2.7 | 1.7(-4)  |          |          |       | -30467 |      | GC 32411   | 24   | -69  | 000001100 |     |
| 5748S | 23 14 29 | 29 35.6   | 10 | 2.2 | 1.6(-5)  |          | -3.8(.6) |       | 30508  |      | DO 22146   | 100  | -29  | 070001004 |     |
| 3063S | 23 14 38 | 32 1      | 13 | 1.8 |          |          | -3.8(.5) |       |        |      | BRIGHT NEB | 101  | -26  | 070400304 |     |
| 5749S | 23 15 5  | 73 29.3   | 33 | 3.6 | 1.6(-4)  |          |          |       |        |      | SVS 102245 | 116  | 12   | 070701100 |     |
| 5750S | 23 16 13 | -29 39.6  | 16 | 3.6 | 1.4(-5)  |          |          |       | -30469 |      | GC 32460   | 24   | -70  | 000007100 |     |
| 3069S | 23 16 46 | -38 4.2   | 1  | 3.8 | 1.4(-3)  |          |          |       |        |      |            | 358  | -68  | 000001000 |     |
| 5751S | 23 16 52 | 67 51.4   | 32 | 4.1 | 1.0(-3)  |          | -9(.4)   |       | 70194  | 8872 | OMI CEP    | 114  | 7    | 000703000 |     |
| 3070S | 23 16 53 | 56 55.6   | 20 | 1.9 | 1.4(-4)  |          | -3.5(.4) |       | 6039C  |      | DO 42892   | 111  | -3   | 070400400 |     |
| 5752S | 23 17 25 | 41 49.1   | 15 | 1.9 | 1.4(-4)  |          | -1.1(.5) |       | 40534  | 8876 | 10 AND     | 105  | -18  | 070100200 |     |
| 5753S | 23 17 43 | 32 39.8   | 19 | 3.2 | 1.5(-3)  |          |          |       |        |      |            | 102  | -26  | 010700700 |     |
| 3077S | 23 17 53 | 46 57.5   | 17 | 2.1 | 1.5(-4)  |          |          |       |        |      | EU AND     | 107  | -13  | 010700100 |     |
| 5754S | 23 17 53 | 5 6.6     | 16 | 3.3 | 1.5(-5)  |          |          |       | 10532  | 8878 | 7 PSC      | 85   | -51  | 000000100 |     |
| 5755S | 23 18 28 | 61 56.2   | 31 | 1.6 | 1.5(-3)  |          |          |       | 60400  | 8886 | GC 32508   | 113  | 1    | 070100700 |     |
| 3093S | 23 18 32 | 39 20.8   | 15 | 2.0 | 1.6(-4)  |          |          |       | 4C535  |      | RY AND     | 105  | -20  | 010700100 |     |
| 5756S | 23 19 0  | 20 18.3   | 17 | 2.8 | 1.6(-5)  |          |          |       | 20547  |      | DO 22187   | 96   | -38  | 010700700 |     |
| 5757S | 23 19 27 | 63 23.2   | 33 | 2.0 | 1.1(-3)  |          |          |       |        |      |            | 113  | 3    | 010700700 |     |
| 5758S | 23 19 44 | 25 33.9   | 17 | 2.9 |          | -9(.4)   |          |       | 30511  |      | GC 32530   | 99   | -33  | 070200700 |     |
| 5759S | 23 19 49 | -59 16.0  | 30 | 2.3 | -1.8(-4) |          |          |       |        |      |            | 323  | -55  | 000000200 |     |
| 5760S | 23 20 11 | 28 23.0   | 17 | 1.6 | -7(.4)   |          |          |       |        |      | BRIGHT NEB | 100  | -30  | 070700200 |     |
| 5761S | 23 20 13 | 26 41.5   | 17 | 3.1 | -1.4(-4) |          |          |       |        |      |            | 100  | -32  | 020700+00 |     |
| 5762S | 23 20 16 | 25 39.8   | 12 | 1.9 | 1.8(-4)  |          |          |       |        |      | GC 32530   | 99   | -33  | 070100100 |     |
| 5763S | 23 20 34 | 12 5      | 16 | 3.1 | 1.6(-4)  |          |          |       | 30511  | 8893 | 66 PEG     | 92   | -45  | 070100700 |     |
| 5764S | 23 21 4  | 55 53.5   | 27 | 2.3 | 1.8(-4)  |          |          |       | 60403  |      | V353 CAS   | 111  | -5   | 010700700 |     |
| 5765S | 23 21 46 | -41 19.1  | 21 | 2.9 | 1.5(-4)  |          |          |       | 40537  |      | DO 43003   | 106  | -18  | 070403100 |     |
| 5766S | 23 21 50 | -17 34.8  | 11 | 3.9 | 1.5(-4)  |          |          |       | -20634 |      | RU AQR     | 54   | -68  | 000001700 |     |
| 5767S | 23 21 59 | 12 40.0   | 16 | 3.4 | 1.1(-3)  |          |          |       |        |      |            | 92   | -45  | 010700700 |     |
| 3092S | 23 23 14 | -11 27.1  | 7  | 1.9 | 1.3(-4)  |          | -1.0(.5) |       | -10599 |      |            | 67   | -64  | 000001320 |     |
| 5768S | 23 23 37 | 27 33.5   | 18 | 2.8 |          | -3.7(.4) |          |       |        |      |            | 101  | -31  | 070400700 |     |
| 3091S | 23 24 26 | 5 23.3    | 17 | 3.5 | 9(.4)    |          |          |       |        |      |            | 88   | -51  | 000000100 |     |
| 5769S | 23 25 19 | 59 4.2    | 30 | 2.2 | 2.0(-4)  |          |          |       | 60405  |      | DO 43114   | 112  | -2   | 010700700 |     |
| 5770S | 23 25 37 | 44 58.8   | 22 | 2.2 | 1.6(-3)  |          |          |       |        |      |            | 108  | -15  | 070100700 |     |
| 5771S | 23 26 24 | -9 30.8   | 12 | 4.0 | 1.5(-4)  |          |          |       | -10602 | 8921 | GC 32662   | 72   | -64  | 000001700 |     |
| 5772S | 23 26 38 | 59 27.7   | 29 | 1.8 | 1.7(-4)  |          |          |       | 60406  |      | DO 43132   | 113  | -1   | 070100700 |     |
| 3103S | 23 27 0  | 56 24.1   | 20 | 1.9 | 1.5(-3)  |          |          |       | 80407  |      | V356 CAS   | 112  | -4   | 070100700 |     |
| 5773S | 23 27 39 | -17 19.5  | 15 | 3.7 | 1.3(-4)  |          |          |       |        |      |            | 87   | -69  | 000007100 |     |
| 5774S | 23 28 16 | 53 35.3   | 26 | 2.5 | 1.1(-3)  |          |          |       |        |      |            | 111  | -7   | 010700700 |     |
| 5775S | 23 30 16 | 23 35.7   | 17 | 2.9 | 2.2(-4)  |          |          |       | 20549  |      | GC 32740   | 101  | -36  | 070100700 |     |
| 5776S | 23 31 6  | 5 50.9    | 15 | 3.2 | 1.5(-4)  |          |          |       | 10537  |      |            | 91   | -52  | 000100700 |     |
| 5776S | 23 31 43 | 12 40.5   | 16 | 3.0 | 1.3(-3)  |          |          |       |        |      |            | 95   | -46  | 070100700 |     |
| 5777S | 23 32 9  | 51 52.3   | 24 | 1.8 | 1.3(-3)  |          |          |       |        |      |            | 111  | -9   | 070100700 |     |
| 3117S | 23 32 18 | 71 22.2   | 33 | 1.5 | 1.8(-4)  |          |          |       |        |      |            | 117  | 10   | 010700700 |     |
| 5778S | 23 32 51 | -69 54.7  | 43 | 2.0 |          | -1.7(-4) |          |       | 70198  | 8952 | DO 43318   | 312  | -46  | 000000200 |     |
| 5779S | 23 34 44 | 46 49.9   | 22 | 2.0 | 1.6(-4)  |          |          |       | 50470  |      | GG AND     | 110  | -14  | 070100700 |     |
| 5780S | 23 35 6  | 71 5 8    | 23 | 2.0 |          | -1.3(-4) | -3.5(.4) |       |        |      |            | 117  | 9    | 070707700 |     |
| 5781S | 23 35 10 | 55 33.0   | 26 | 1.7 | 2.2(-5)  |          |          |       | 80414  |      | DO 43352   | 113  | -6   | 070100700 |     |
| 5782S | 23 37 24 | 51 47.6   | 24 | 1.8 | 1.5(-4)  |          |          |       | 50476  |      | DO 43429   | 112  | -9   | 070100700 |     |
| 5783S | 23 38 58 | -18 16.5  | 15 | 3.8 | 1.3(-4)  |          |          |       | -20638 | 8980 | 103 AQR    | 59   | -71  | 00000+100 |     |
| 3132S | 23 39 55 | 44 39.7   | 16 | 2.2 | 1.4(-4)  |          |          |       | 40543  | 8986 | GC 32924   | 110  | -16  | 010700100 |     |
| 3134  | 23 40 3  | 32 55.5   | 18 | 3.0 | 1.1(-3)  |          |          |       |        |      |            | 107  | -27  | 010700700 |     |
| 5784S | 23 41 22 | 0 4.3     | 15 | 3.3 | 1.6(-4)  |          |          |       | 531    |      | SVS 5784   | 90   | -58  | 000100700 |     |

TABLE OF OBSERVATIONS

| GL    | RA(1950) | DEC(1950) | EA | ED  | M(4)     | M(11)    | M(20) | M(27) | IRC    | BS   | COMMENTS   | L II | B II | OBS.      | LOG |
|-------|----------|-----------|----|-----|----------|----------|-------|-------|--------|------|------------|------|------|-----------|-----|
|       | H M S    | O S       |    |     |          |          |       |       |        |      |            |      |      |           |     |
| 31375 | 23 41 23 | 24 25.7   | 17 | 2.9 | 1.6(.3)  |          |       |       | 30516  | 8997 | 78 PEG     | 104  | -36  | 070100000 |     |
| 57855 | 23 41 47 | 29 5.2    | 18 | 2.7 | 1.7(.4)  |          |       |       |        |      | SVS 102283 | 106  | -31  | 070100000 |     |
| 31425 | 23 42 15 | 56 57.4   | 21 | 2.3 |          | -6(.4)   |       |       |        |      |            | 114  | -4   | 020700200 |     |
| 31465 | 23 43 39 | 7 9.5     | 18 | 3.8 | 1.0(.4)  |          |       |       |        |      |            | 83   | -65  | 000007100 |     |
| 31555 | 23 46 22 | 21 47.9   | 17 | 3.0 | 1.6(.3)  |          |       |       |        |      | DO 22462   | 104  | -39  | 070100000 |     |
| 57865 | 23 46 32 | 68 25.6   | 24 | 2.2 | 1.9(.4)  |          |       |       | 70201  |      | DO 43656   | 117  | 7    | 010727000 |     |
| 31563 | 23 46 40 | 76 39.3   | 28 | 2.7 | 1.9(.4)  | -1.4(.4) |       |       |        |      | SVS 5792   | 119  | 15   | 070722000 |     |
| 57875 | 23 47 37 | 60 48.6   | 31 | 2.3 | 1.6(.3)  | -7(.4)   |       |       | 60425  |      | DO 43690   | 116  | -1   | 070100700 |     |
| 57885 | 23 48 18 | 48 43.9   | 25 | 3.6 | 1.9(.5)  |          |       |       | 50480  |      | DO 43717   | 113  | -13  | 070700100 |     |
| 31615 | 23 48 45 | 26 53.4   | 12 | 2.1 | -1.2(.5) |          |       |       |        |      | GR PEG     | 107  | -34  | 02020000? |     |
| 31625 | 23 48 51 | 5 25.8    | 15 | 3.2 |          |          |       |       |        |      |            | 97   | -54  | 000100700 |     |
| 57895 | 23 48 59 | 29 26.9   | 18 | 2.7 | 1.8(.3)  |          |       |       | 30520  |      | DU PEG     | 108  | -31  | 070100000 |     |
| 57905 | 23 50 11 | -16 43.5  | 9  | 3.7 | 1.4(.4)  |          |       |       | -20543 |      |            | 68   | -73  | 000001700 |     |
| 31695 | 23 50 34 | -1 38.1   | 15 | 3.3 | 1.1(.3)  |          |       |       |        |      |            | 92   | -61  | 000100700 |     |
| 57915 | 23 51 10 | 53 19.1   | 25 | 2.0 | 1.7(.3)  |          |       |       | 50481  |      | DO 43773   | 114  | -8   | 070100700 |     |
| 57925 | 23 51 20 | 0 17.4    | 15 | 3.3 | 1.5(.4)  |          |       |       | 534    |      | DO 8097    | 94   | -59  | 000100700 |     |
| 57935 | 23 52 6  | -31 9     | 8  | 3.7 | 1.8(.4)  |          |       |       | -30470 |      | SVS 5805   | 13   | -77  | 000001700 |     |
| 57945 | 23 53 31 | -22 21.8  | 8  | 3.7 | 2.0(.4)  |          |       |       | -20640 |      | GC 33196   | 52   | -76  | 000001700 |     |
| 57955 | 23 53 36 | -22 13.2  | 15 | 3.8 | 1.5(.4)  |          |       |       | -20644 |      | GC 33196   | 52   | -76  | 000001700 |     |
| 57965 | 23 54 9  | 28 4.6    | 11 | 2.5 | -2.0(.4) |          |       |       |        |      |            | 108  | -35  | 020700002 |     |
| 31845 | 23 55 1  | 60 44.3   | 22 | 1.7 |          |          |       |       | 60430  |      | GC 33217   | 116  | -1   | 010100700 |     |
| 57975 | 23 55 8  | 49 39.9   | 22 | 1.9 | 1.3(.3)  |          |       |       |        |      | EP PEG, EO | 114  | -2   | 040100700 |     |
| 57985 | 23 57 38 | 19 57.1   | 17 | 3.0 | 2.0(.4)  |          |       |       | 20558  |      |            | 107  | -41  | 070100000 |     |
| 31955 | 23 57 41 | 14 44.5   | 16 | 3.1 | 1.6(.3)  |          |       |       |        |      |            | 105  | -46  | 000100000 |     |
| 57995 | 23 58 26 | 38 12.7   | 20 | 2.5 | 1.4(.4)  |          |       |       | 40548  |      | DO 22623   | 112  | -23  | 070100000 |     |
| 58005 | 23 59 3  | -51 40.3  | 26 | 2.8 | -1.8(.4) |          |       |       |        |      |            | 321  | -64  | 000000020 |     |
| 31985 | 23 59 43 | -21 17.1  | 15 | 3.9 | 1.8(.4)  |          |       |       |        |      |            | 59   | -77  | 000007100 |     |

## Appendix B

Multiply Observed Sources

PRECEDING PAGE BLANK NOT FILLED

MULTIPLY OBSERVED SOURCES

| GL    | M(4)    | M(11)    | M(20)    | M(27)    | J.D. | GL    | M(4)    | M(11)    | M(20)    | M(27) | J.D.     |
|-------|---------|----------|----------|----------|------|-------|---------|----------|----------|-------|----------|
| 25    | 1.8(.4) |          |          |          | 335  | 915   | 1.1(.4) |          |          |       | 2441000+ |
| 25    | 1.4(.5) |          |          |          | 423  | 915   |         |          | -4.2(.5) |       | 254      |
| 35    |         | -1.0(.5) | -3.4(.5) |          | 132  | 915   | .9(.3)  | .2(.7)   |          |       | 423      |
| 35    |         | -.8(.4)  |          |          | 335  | 955   | 1.4(.4) |          |          |       | 548      |
| 45    | 1.7(.4) |          |          |          | 132  | 955   | 1.5(.4) |          |          |       | 254      |
| 45    | 1.8(.4) |          |          |          | 335  | 975   |         | -1.0(.5) |          |       | 335      |
| 40035 |         |          |          |          | 132  | 975   |         | -1.4(.4) |          |       | 132      |
| 40035 | 1.7(.4) |          | -3.1(.5) |          | 335  | 1125  |         |          |          |       | 423      |
| 40065 | .8(.4)  |          |          |          | 535  | 1125  | 1.5(.4) | -.7(.4)  |          |       | 132      |
| 40065 |         |          |          | -6.3(.6) | 657  | 1125  | 1.5(.4) |          |          |       | 335      |
| 40075 | 1.6(.4) |          |          |          | 1295 | 1145  | 1.8(.3) | -.7(.5)  |          |       | 657      |
| 40075 | 1.5(.4) | -2.0(.4) |          |          | 548  | 1145  |         |          |          |       | 132      |
| 40155 |         |          |          |          | 657  | 1195  | 1.7(.4) |          |          |       | 335      |
| 40155 | 1.9(.5) |          | -3.1(.5) |          | 1295 | 1195  | 2.0(.4) |          |          |       | 132      |
| 355   | 1.7(.4) |          |          |          | 423  | 1255  | 1.8(.4) |          |          |       | 335      |
| 355   | 1.9(.5) |          |          |          | 657  | 1255  | 1.5(.4) |          |          |       | 548      |
| 355   |         |          | -2.8(.5) |          | 132  | 1305  |         | -.7(.4)  |          |       | 657      |
| 355   | 1.4(.4) |          |          |          | 423  | 1305  |         | -.9(.4)  |          |       | 132      |
| 40185 | 1.6(.4) | -.7(.5)  |          |          | 657  | 1315  |         |          | -3.4(.4) |       | 335      |
| 40185 |         |          |          |          | 132  | 1315  |         |          | -3.0(.5) |       | 548      |
| 395   |         | -.8(.5)  |          |          | 423  | 1465  | 1.5(.4) |          |          |       | 132      |
| 395   |         | .2(.4)   |          |          | 132  | 1465  | 1.3(.4) |          |          |       | 657      |
| 585   | 1.5(.5) |          |          |          | 335  | 40755 | 1.9(.5) |          |          |       | 335      |
| 585   | 1.7(.5) |          |          |          | 548  | 40755 | 1.4(.5) |          |          |       | 657      |
| 635   |         | -1.0(.4) |          |          | 657  | 1515  | 1.5(.4) |          |          |       | 335      |
| 635   |         | -.5(.4)  |          |          | 132  | 1515  | .9(.4)  |          |          |       | 548      |
| 695   |         | -1.7(.4) |          |          | 335  | 1665  |         | -1.7(.4) |          |       | 254      |
| 695   |         | -1.4(.4) |          |          | 548  | 1665  | 1.4(.3) |          |          |       | 335      |
| 745   | 1.7(.4) |          |          |          | 657  | 1765  |         |          |          |       | 548      |
| 745   | 1.7(.4) |          |          |          | 132  | 1765  |         | -1.8(.4) |          |       | 657      |
| 795   | 1.5(.4) |          |          |          | 335  | 1855  |         | -1.8(.4) |          |       | 132      |
| 795   | 1.4(.4) |          |          |          | 423  | 1855  |         | -1.4(.4) |          |       | 548      |
| 865   |         | -1.0(.5) |          |          | 132  | 1855  |         | -1.5(.4) |          |       | 132      |
| 865   | 1.6(.4) |          |          |          | 423  | 40935 |         | -1.1(.5) |          |       | 254      |
| 865   | 1.0(.4) |          |          |          | 132  | 40935 |         | -.4(.4)  |          |       | 335      |
| 875   | 1.5(.4) |          |          |          | 335  | 2025  | 1.5(.4) |          |          |       | 132      |
| 875   | 1.5(.4) |          |          |          | 548  | 2025  | 1.8(.4) |          |          |       | 335      |
| 875   |         |          |          |          | 657  | 2095  | 1.7(.4) |          |          |       | 548      |
| 875   |         |          |          |          |      | 2095  | 1.3(.4) |          |          |       | 657      |

MULTIPLY OBSERVED SOURCES

| GL    | M(4)    | M(11)    | M(20)    | M(27)    | J.D.     | GL    | M(4)    | M(11)    | M(20) | M(27) | J.D.     |
|-------|---------|----------|----------|----------|----------|-------|---------|----------|-------|-------|----------|
| 2135  | 1.2(.4) |          |          |          | 2441000+ | 41855 | 1.7(.4) |          |       |       | 2441000+ |
| 2135  | 1.5(.4) | -2.0(.4) |          |          | 254      | 41855 | 1.2(.5) |          |       |       | 132      |
| 2135  |         |          |          |          | 335      |       |         |          |       |       | 657      |
| 2135  |         |          |          |          | 423      |       |         |          |       |       |          |
| 2215  |         |          | -3.2(.5) |          | 254      | 41975 | 1.7(.4) | -4(.5)   |       |       | 132      |
| 2215  | 1.0(.5) |          |          |          | 335      | 41975 |         |          |       |       | 423      |
| 2215  | 1.4(.4) |          |          |          | 423      |       |         |          |       |       | 657      |
| 41135 | 1.3(.4) |          |          |          | 254      | 3305  |         | -1.1(.4) |       |       | 335      |
| 41135 |         |          | -2.6(.5) |          | 335      | 3305  |         | -1.7(.4) |       |       | 657      |
| 41205 | 2.1(.4) |          |          |          | 335      | 3435  |         | -6(.4)   |       |       | 548      |
| 41205 |         |          | -3.7(.6) |          | 1302     | 3435  |         |          |       |       | 657      |
| 2485  | .9(.3)  | -7(.4)   |          |          | 235      | 3445  |         |          |       |       | 254      |
| 2485  | 1.1(.3) |          |          |          | 548      | 3445  |         |          |       |       | 335      |
| 41425 | 1.9(.4) |          |          |          | 857      | 3465  | 1.5(.4) |          |       |       | 335      |
| 41425 |         |          |          | -6.7(.6) | 1295     | 3465  | 1.7(.4) |          |       |       | 548      |
| 2585  |         |          |          |          | 132      |       |         |          |       |       | 657      |
| 2585  | 1.8(.3) | -1.5(.5) |          |          | 254      | 42035 | 2.1(.4) |          |       |       | 335      |
| 41485 | 1.5(.4) | -3(.4)   |          |          | 335      | 42035 | 1.5(.4) |          |       |       | 423      |
| 41485 |         |          |          |          | 254      | 42115 | 1.3(.4) |          |       |       | 548      |
| 2705  | 1.3(.4) |          |          |          | 132      |       |         |          |       |       | 132      |
| 2705  | 2.1(.5) |          |          |          | 254      | 42135 |         | -2.1(.4) |       |       | 657      |
| 2825  | 1.8(.5) |          |          |          | 254      |       |         |          |       |       | 335      |
| 2825  | 1.7(.4) |          |          |          | 335      | 3585  |         | -8(.4)   |       |       | 548      |
| 2825  | 1.6(.4) |          |          |          | 548      | 3585  |         | -1.6(.4) |       |       | 132      |
| 2885  | 2.0(.5) |          |          |          | 335      | 3685  | 1.8(.3) |          |       |       | 254      |
| 2885  | 1.8(.4) |          |          |          | 657      | 3685  | 1.6(.6) |          |       |       | 657      |
| 41615 |         |          |          |          | 548      |       |         |          |       |       | 335      |
| 41615 | 1.9(.5) |          | -3.6(.5) |          | 657      | 42185 | 2.0(.4) |          |       |       | 657      |
| 2985  | 1.7(.4) | -1.1(.5) |          |          | 132      |       |         |          |       |       | 335      |
| 2985  | 1.5(.4) |          |          |          | 254      | 3705  | 1.7(.4) |          |       |       | 548      |
| 41685 | 1.2(.4) |          |          |          | 335      |       |         |          |       |       | 335      |
| 41685 |         |          |          |          | 548      | 42225 | 1.3(.3) | -1.6(.3) |       |       | 1302     |
| 41745 |         |          |          |          | 335      |       |         |          |       |       | 335      |
| 41745 |         |          |          |          | 423      | 3745  |         | -2.9(.5) |       |       | 548      |
| 41765 |         |          |          |          | 254      |       |         |          |       |       | 335      |
| 41765 | 1.8(.4) |          | -3.4(.5) |          | 335      | 42345 |         | -8(.4)   |       |       | 254      |
| 3125  |         |          |          |          | 335      | 42345 | 1.0(.4) |          |       |       | 335      |
| 3125  |         |          |          |          | 548      |       |         |          |       |       | 548      |
| 4185  | 1.5(.4) |          |          |          | 254      | 42355 |         | -1.3(.5) |       |       | 657      |
| 4185  | 1.3(.4) |          |          |          | 548      |       |         |          |       |       | 1302     |

MULTIPLY OBSERVED SOURCES

| GL    | M(4)    | M(11)    | M(20)    | M(27) | J.D.     | GL    | M(4)    | M(11)    | M(20)    | M(27)    | J.D.     |
|-------|---------|----------|----------|-------|----------|-------|---------|----------|----------|----------|----------|
| 4155  |         |          |          |       | 2441000+ | 5325  | 1.7(.4) |          |          |          | 2441000+ |
| 4155  | .8(.4)  | -.5(.4)  |          |       | 335      | 5325  | 1.7(.4) |          |          |          | 335      |
| 4215  |         |          |          |       | 657      | 5335  |         |          |          |          | 657      |
| 4215  |         |          | -3.6(.4) |       | 335      | 5335  | 1.2(.3) |          | -3.9(.5) |          | 254      |
| 4235  |         |          | -2.2(.5) |       | 335      | 5335  |         |          | -4.2(.4) |          | 335      |
| 4235  | 1.0(.3) | -1.6(.4) |          |       | 335      | 4315  | 1.9(.4) |          | -2.7(.5) |          | 254      |
| 4235  |         |          |          |       | 548      | 4315  | 1.8(.4) |          |          |          | 335      |
| 4245  | 1.5(.5) |          |          |       | 254      | 5395  |         |          | -3.6(.4) |          | 254      |
| 4245  | 1.6(.4) |          |          |       | 548      | 5395  |         | -1.7(.4) |          |          | 335      |
| 4455  | 1.5(.4) |          |          |       | 335      | 5395  |         |          | -4.3(.5) |          | 657      |
| 4455  | 1.4(.4) |          |          |       | 657      | 43285 | 1.8(.8) |          | -3.3(.4) |          | 335      |
| 42585 |         |          |          |       | 254      | 43285 |         |          |          |          | 548      |
| 42585 | 1.0(.3) | -1.1(.4) |          |       | 335      | 43295 | 1.7(.4) |          |          |          | 657      |
| 42585 |         |          |          |       | 254      | 43295 |         |          |          | -6.1(.8) | 1302     |
| 42585 | 1.5(.4) | -3(.4)   |          |       | 548      | 5575  |         |          | -3.5(.5) |          | 548      |
| 4605  | 1.5(.4) |          |          |       | 254      | 5575  |         | -7(.4)   |          |          | 657      |
| 4605  | 1.5(.5) |          |          |       | 657      | 43315 |         | -7(.4)   |          |          | 548      |
| 4685  |         |          |          |       | 254      | 43315 | 1.7(.5) |          |          |          | 657      |
| 4685  |         |          | -3.4(.5) |       | 548      | 5755  |         |          | -2.6(.4) |          | 335      |
| 4685  |         |          | -4.4(.4) |       | 254      | 5755  |         |          | -3.0(.5) |          | 423      |
| 4695  | 1.4(.3) |          |          |       | 254      | 5785  |         | -1.5(.4) |          |          | 254      |
| 4695  |         |          | -3.4(.4) |       | 548      | 5785  | 1.6(.4) |          |          |          | 254      |
| 4705  | 1.1(.4) |          |          |       | 548      | 5785  | 1.2(.5) |          |          |          | 657      |
| 4705  | 2.2(.6) |          | -4.0(.5) |       | 657      | 5805  | 2.0(.4) |          |          |          | 335      |
| 4735  | 1.8(.5) |          | -3.2(.5) |       | 132      | 5805  | .9(.4)  |          |          |          | 657      |
| 4735  |         |          | -3.5(.6) |       | 254      | 5845  | 1.4(.4) |          |          |          | 548      |
| 4735  |         |          |          |       | 657      | 5845  | .9(.4)  |          |          |          | 657      |
| 42695 | 1.6(.3) |          |          |       | 254      | 5965  | 1.7(.4) |          | -6(.5)   |          | 254      |
| 42695 |         |          | -3.4(.6) |       | 1302     | 5965  |         | -1.4(.4) |          |          | 657      |
| 4805  | 1.9(.4) |          |          |       | 335      | 6115  |         |          | -3.2(.5) |          | 254      |
| 4805  |         |          | -3.6(.4) |       | 548      | 6115  |         | -1.5(.4) | -4.1(.5) |          | 657      |
| 42725 |         |          |          |       | 335      | 43705 | 1.8(.3) |          |          |          | 335      |
| 42725 |         |          | -2.4(.6) |       | 548      | 43705 |         | -1.9(.4) |          |          | 548      |
| 42725 |         |          | -3.0(.5) |       | 657      | 6305  |         | -1.5(.4) |          |          | 657      |
| 42725 |         |          | -3.7(.6) |       | 548      | 6305  |         | -8(.4)   | -5.0(.5) |          | 548      |
| 5025  |         |          | -3.5(.5) |       | 254      | 43765 | 1.2(.4) |          |          |          | 254      |
| 5025  |         |          | -4.0(.5) |       | 657      | 43765 |         |          |          | -6.6(.8) | 1302     |
| 5045  | 1.4(.4) |          |          |       | 254      | 43845 | 1.1(.4) |          |          |          | 548      |
| 5045  | 1.6(.5) |          |          |       | 657      |       |         |          |          |          | 657      |
| 42925 |         |          | -4.1(.5) |       | 254      |       |         |          |          |          | 548      |
| 42925 |         |          | -3.7(.6) |       | 1302     |       |         |          |          |          | 657      |

MULTIPLY OBSERVED SOURCES

| GL    | M(4)    | M(11)    | M(20)    | M(27) | J.D.     | GL    | M(4)    | M(11)    | M(20)    | M(27) | J.D.     |
|-------|---------|----------|----------|-------|----------|-------|---------|----------|----------|-------|----------|
|       |         |          |          |       | 2441000+ |       |         |          |          |       | 2441000+ |
| 6555  | 1.2(.4) |          |          |       | 548      | 8085  | 1.5(.4) |          |          |       | 335      |
| 6555  | 1.6(.4) |          |          |       | 657      | 8085  | 1.5(.4) |          |          |       | 657      |
| 6685  | 1.8(.4) |          |          |       | 548      | 8105  |         |          | -3.0(.4) |       | 254      |
| 6685  | 1.4(.4) |          |          |       | 657      | 8105  | 1.0(.4) |          |          |       | 657      |
| 6705  | 1.2(.4) |          |          |       | 548      | 8145  |         | -1.8(.3) | -3.2(.4) |       | 335      |
| 6705  | 1.0(.5) |          |          |       | 657      | 8145  |         | -1.7(.5) |          |       | 657      |
| 43885 | *       |          |          |       | 335      | 8315  |         |          |          |       | 254      |
| 43885 | 1.6(.5) |          | -3.3(.8) |       | 657      | 8315  | 1.4(.4) | -2(.5)   |          |       | 423      |
| 6645  | 2.2(.4) |          |          |       | 548      | 8315  | 1.6(.5) | -5(.5)   |          |       | 657      |
| 6845  | 1.8(.5) |          |          |       | 657      | 8335  | 1.9(.4) |          |          |       | 335      |
| 6965  | 1.7(.4) |          |          |       | 423      | 8335  | 1.5(.4) |          |          |       | 657      |
| 6965  | 1.7(.4) | -8(.4)   | -2.7(.5) |       | 548      | 44575 | 1.8(.4) | -1.3(.4) |          |       | 335      |
| 43045 | 2.0(.4) |          |          |       | 335      | 44575 |         |          |          |       | 657      |
| 43945 | 2.0(.6) |          | -3.1(.8) |       | 657      | 8695  | 1.5(.4) |          |          |       | 254      |
| 7265  | 1.4(.3) |          | -2.8(.4) |       | 254      | 8695  | 1.6(.4) |          |          |       | 548      |
| 7365  | 1.6(.4) |          |          |       | 335      | 8905  |         |          | -3.7(.4) |       | 335      |
| 7365  | 1.5(.5) |          |          |       | 657      | 8905  |         |          | -4.9(.5) |       | 657      |
| 7425  | 1.6(.4) |          |          |       | 335      | 9115  |         |          | -3.4(.4) |       | 132      |
| 7425  | 1.6(.5) |          |          |       | 657      | 9115  |         |          | -3.8(.5) |       | 657      |
| 44125 | *       |          |          |       | 548      | 9265  | 1.8(.3) |          |          |       | 423      |
| 44125 | *       |          | -3.1(.5) |       | 657      | 9265  | 1.5(.4) |          |          |       | 657      |
| 7475  | 2.1(.5) |          | -4.0(.5) |       | 548      | 9305  | 2.2(.8) |          |          |       | 335      |
| 7475  | 1.5(.5) |          |          |       | 657      | 9305  | 1.4(.4) |          |          |       | 657      |
| 44185 |         |          |          |       | 548      | 9425  |         |          | -2.7(.8) |       | 335      |
| 44185 |         |          | -3.9(.5) |       | 657      | 9425  |         |          | -3.6(.5) |       | 657      |
| 44195 |         | -1.1(.5) |          |       | 254      | 9485  | 1.7(.4) |          |          |       | 335      |
| 44195 |         | -7(.4)   | -3.7(.6) |       | 1202     | 9485  | 1.2(.4) |          |          |       | 657      |
| 7855  | 1.7(.3) |          |          |       | 335      | 9515  | 1.9(.5) | 1(.4)    |          |       | 335      |
| 7855  | *       |          |          |       | 657      | 9515  |         | 9(.4)    |          |       | 657      |
| 7725  |         | -1.6(.4) |          |       | 335      | 9535  | 1.9(.4) |          |          |       | 423      |
| 7725  |         | -1.0(.4) |          |       | 335      | 9535  | *       | -2.1(.4) |          |       | 548      |
| 7725  |         | -5(.5)   |          |       | 657      | 9535  | *       | -1.2(.4) |          |       | 657      |
| 7745  | 1.9(.4) |          |          |       | 548      | 9605  |         |          | -3.8(.5) |       | 254      |
| 7745  | 1.8(.4) |          |          |       | 657      | 9605  | 1.5(.4) |          |          |       | 335      |
| 44265 | 2.0(.4) | -1.1(.5) | *        |       | 132      | 9605  | 1.1(.4) |          |          |       | 423      |
| 44265 |         |          |          |       | 423      | 45115 | 1.4(.5) |          |          |       | 657      |
| 44345 | 2.0(.4) |          |          |       | 335      | 45115 | 1.9(.5) |          |          |       | 254      |
| 44345 |         | -0(.5)   |          |       | 548      | 9725  | 1.2(.4) |          |          |       | 335      |
|       |         |          |          |       |          | 9725  | 1.4(.4) |          |          |       |          |



MULTIPLY OBSERVED SOURCES

| GL    | M(4)    | M(11)    | M(20)    | M(27) | J.D.     | GL    | M(4)    | M(11)    | M(20)    | M(27) | J.D.     |
|-------|---------|----------|----------|-------|----------|-------|---------|----------|----------|-------|----------|
| 9735  | 1.2(.3) |          |          |       | 2441000+ | 12465 | 1.1(.3) |          |          |       | 2441000+ |
| 9735  | 1.3(.3) |          |          |       | 254      | 12465 | 2.0(.4) |          |          |       | 254      |
| 45125 | 1.2(.4) | -1.7(.4) |          |       | 423      | 46895 |         | -1.0(.4) |          |       | 335      |
| 45125 |         |          |          |       | 254      | 46895 |         | -2.1(.4) |          |       | 423      |
| 9875  | 1.8(.4) |          |          |       | 335      | 12525 |         | .7(.4)   |          |       | 254      |
| 9375  | 1.7(.4) |          |          |       | 657      | 12525 |         | .8(.4)   |          |       | 335      |
| 45195 |         | -1.6(.5) |          |       | 335      | 12565 |         |          | -3.1(.5) |       | 335      |
| 45195 |         | -1.8(.5) |          |       | 657      | 12565 |         |          | -4.1(.4) |       | 423      |
| 9925  |         | -1.5(.4) |          |       | 335      | 46975 | 1.3(.4) | -1.7(.4) |          |       | 335      |
| 9925  |         | -1.8(.5) |          |       | 657      | 46975 |         |          |          |       | 657      |
| 45585 |         | -2.3(.4) | -3.2(.6) |       | 1295     | 12725 | 1.4(.3) | -1.9(.4) | -2.3(.6) |       | 254      |
| 45585 |         |          |          |       | 1302     | 12725 |         |          |          |       | 423      |
| 10685 | 1.7(.4) |          |          |       | 335      | 12775 | 1.3(.4) |          |          |       | 254      |
| 10685 | 1.3(.4) |          |          |       | 423      | 12775 | 1.2(.4) |          |          |       | 335      |
| 10685 |         |          | -3.0(.7) |       | 657      | 12865 |         | -1.8(.5) |          |       | 132      |
| 10835 | 1.5(.4) |          |          |       | 335      | 12865 | 1.2(.4) |          |          |       | 254      |
| 10835 | 1.6(.4) |          |          |       | 657      | 12865 | 1.2(.4) |          |          |       | 657      |
| 10975 | 1.7(.4) |          |          |       | 335      | 12945 | 1.4(.3) |          |          |       | 335      |
| 10975 | 1.7(.4) |          |          |       | 423      | 12945 |         | -1.9(.4) | -3.4(.5) |       | 657      |
| 11005 | 1.6(.4) |          |          |       | 335      | 47235 |         |          |          |       | 254      |
| 11005 | 1.0(.4) |          |          |       | 548      | 47235 | 1.6(.3) |          | -2.3(.5) |       | 423      |
| 11215 | 1.5(.4) |          |          |       | 335      | 47265 | 1.3(.4) |          | -2.9(.5) |       | 254      |
| 11215 | 1.7(.5) |          |          |       | 657      | 47265 |         |          |          |       | 423      |
| 11265 | 1.6(.4) | -1.9(.5) |          |       | 335      | 47305 |         |          | -3.2(.4) |       | 254      |
| 11265 |         |          |          |       | 548      | 47305 |         |          | -3.4(.5) |       | 423      |
| 11265 | 2.2(.5) |          |          |       | 657      | 13315 |         | -1.3(.4) | -3.2(.5) |       | 254      |
| 11425 | 2.0(.5) |          |          |       | 335      | 13315 |         | -1.1(.4) |          |       | 423      |
| 11425 | 1.6(.4) |          |          |       | 548      | 13375 |         |          | -2.2(.5) |       | 254      |
| 12025 | 1.5(.4) |          |          |       | 254      | 13375 |         |          | -2.9(.4) |       | 423      |
| 12025 | 1.9(.5) |          |          |       | 335      | 13455 |         | -1.1(.4) |          |       | 335      |
| 12195 |         | -1.0(.4) |          |       | 254      | 13455 |         | -1.2(.4) |          |       | 423      |
| 12195 |         | -2.0(.4) |          |       | 657      | 47475 | 2.0(.5) |          |          |       | 254      |
| 12225 |         |          | -2.8(.5) |       | 423      | 47475 | 1.3(.4) |          |          |       | 423      |
| 12225 |         |          | -4.1(.5) |       | 657      | 47495 |         |          |          |       | 254      |
| 12295 | 1.7(.4) |          |          |       | 335      | 47495 | 1.9(.6) |          |          |       | 423      |
| 12295 | 1.5(.5) |          |          |       | 423      | 47495 | 1.5(.4) |          |          |       | 423      |
| 12425 |         | -1.8(.4) |          |       | 132      | 13745 | 1.7(.4) | -1.3(.5) |          |       | 45       |
| 12425 | 2.0(.4) | -4(.5)   |          |       | 335      | 13745 |         | -1.4(.4) |          |       | 254      |
| 12425 |         |          |          |       | 548      |       |         |          |          |       |          |

MULTIPLY OBSERVED SOURCES

| GL    | M(4)    | M(11)     | M(20)    | M(27) | J.D.     | GL    | M(4)    | M(11)    | M(20)    | M(27)    | J.D.     |
|-------|---------|-----------|----------|-------|----------|-------|---------|----------|----------|----------|----------|
| 13755 | *       | -1.8(.4)  |          |       | 2441000+ | 41455 |         |          |          |          | 2441000+ |
| 13755 |         | -2.1(.4)  |          |       | 254      | 48455 |         | -1.6(.4) | -3.2(.8) |          | 1295     |
| 13775 |         | -1.6(.4)  |          |       | 423      |       |         |          |          |          | 1302     |
| 13775 | *       | -4.1(.4)  |          |       | 254      | 15615 | 1.8(.4) |          |          |          | 45       |
| 47615 | *       | -2.0(.4)  |          |       | 423      | 15615 | 1.6(.4) |          |          |          | 132      |
| 47615 | 1.8(.3) |           |          |       | 45       | 48695 | 1.2(.3) | -1.3(.5) |          |          | 423      |
| 47665 |         | -1.8(.5)  |          |       | 335      | 48695 |         |          |          |          | 1295     |
| 47665 |         | -4.1(.5)  |          |       | 132      | 48705 | 1.3(.4) | -1.4(.5) |          |          | 45       |
| 14015 | 1.6(.5) |           |          |       | 423      | 48705 |         |          |          |          | 132      |
| 14015 | 1.5(.4) |           |          |       | 254      | 16215 | 1.3(.4) |          | -2.8(.8) |          | 45       |
| 14025 |         | -3.1(.5)  |          |       | 335      | 16215 | 1.4(.4) |          |          |          | 132      |
| 14025 | 1.0(.2) |           |          |       | 45       | 49005 | 1.8(.4) |          |          |          | 45       |
| 47825 | 1.5(.8) | -1.4(.5)  |          |       | 254      | 49005 |         | -1.5(.4) |          |          | 423      |
| 47825 | *       | -1.21(.4) |          |       | 45       | 49015 |         |          |          | -6.3(.6) | 1295     |
| 14185 | 1.2(.4) | -1.9(.4)  | -3.7(.4) |       | 254      | 49015 |         |          |          | -6.2(.7) | 1302     |
| 14185 |         | -3.1(.4)  |          |       | 335      | 16385 | .01(.3) |          | -2.8(.4) |          | 45       |
| 14295 |         | -7.1(.4)  | -2.7(.5) |       | 548      | 16385 |         |          |          |          | 423      |
| 14295 |         | -2.1(.4)  |          |       | 45       | 16395 | 1.4(.4) |          |          |          | 45       |
| 14355 |         | -1.1(.5)  | -2.8(.8) |       | 335      | 16395 | 1.3(.4) |          |          |          | 423      |
| 14355 | *       | -2.0(.4)  |          |       | 45       | 49085 |         |          |          | -6.1(.7) | 1295     |
| 14475 |         | -1.6(.4)  |          |       | 254      | 49085 |         |          |          | -6.1(.8) | 1302     |
| 14475 |         | -3.2(.5)  |          |       | 335      | 49135 | 1.8(.4) |          | -2.8(.4) |          | 45       |
| 14515 |         | -3.4(.4)  |          |       | 423      | 49135 | *       | -1.6(.4) |          |          | 423      |
| 14565 | 2.3(.6) | -1.8(.4)  | -2.8(.5) |       | 132      | 49135 |         | -1.2(.3) | -3.0(.5) |          | 132      |
| 14565 |         | -7.1(.4)  |          |       | 45       | 16655 | 1.4(.4) |          |          |          | 45       |
| 14595 |         | -1.2(.5)  | -3.2(.8) |       | 423      | 49265 |         |          | -3.2(.3) |          | 45       |
| 14595 |         |           |          |       | 548      | 49265 |         |          | -2.6(.8) |          | 1295     |
| 15065 | 1.8(.4) |           |          |       | 45       | 49305 | 1.7(.4) |          | -3.3(.5) |          | 45       |
| 15065 | 1.2(.4) |           |          |       | 132      | 49305 |         |          |          |          | 1295     |
| 15135 | 1.3(.4) |           |          |       | 45       | 49375 | 1.0(.3) | -1.6(.5) |          |          | 45       |
| 15135 | 1.8(.4) |           |          |       | 423      | 49375 |         |          | -2.9(.5) |          | 1295     |
| 48305 | 1.1(.3) | -7.1(.4)  |          |       | 45       | 49395 |         | -1.1(.5) |          |          | 1295     |
| 48305 |         |           |          |       | 423      | 49395 |         |          |          |          | 132      |
| 48335 |         | -4.0(.4)  |          |       | 423      | 17055 | 1.1(.4) |          | -3.0(.5) |          | 423      |
| 48335 |         | -3.9(.4)  |          |       | 1295     | 17055 | 1.8(.4) |          |          |          | 423      |
| 48365 |         |           | -6.2(.6) |       | 1295     | 48495 |         | -1.4(.4) |          |          | 1295     |
| 48365 |         |           | -6.5(.6) |       | 1302     |       |         |          |          |          |          |

MULTIPLY OBSERVED SOURCES

| GL    | M(4)    | M(11)    | M(20)    | M(27)    | J.D.     | GL    | M(4)    | M(11)    | M(20)    | M(27)    | J.D.     |
|-------|---------|----------|----------|----------|----------|-------|---------|----------|----------|----------|----------|
| 17215 | *       | -2.2(.4) |          |          | 2441000+ | 50605 | 1.9(.4) |          | -2.8(.6) |          | 2441000+ |
| 17215 |         | -1.0(.4) |          |          | 45       | 50605 |         | -2.1(.5) | -3.4(.8) |          | 45       |
| 49595 |         |          | -4.4(.4) |          | 45       | 18815 | 1.7(.4) |          |          |          | 45       |
| 49595 |         |          | -3.8(.6) |          | 1302     | 18815 | 1.6(.4) |          |          |          | 132      |
| 49705 | 1.6(.4) | -7(.5)   |          |          | 423      | 18825 | 1.5(.4) |          |          |          | 45       |
| 49705 |         | -1.5(.5) | -2.9(.5) |          | 1295     | 18825 | 1.4(.4) |          |          |          | 132      |
| 17475 | 1.8(.4) |          |          |          | 45       | 50655 | 1.5(.4) |          |          |          | 45       |
| 17475 | 1.7(.4) |          |          |          | 423      | 50655 |         |          |          | -6.8(.7) | 1302     |
| 17495 | 1.9(.4) | -4(.5)   |          |          | 132      | 19075 |         | -6(.4)   |          |          | 132      |
| 17495 | 1.6(.4) |          |          |          | 423      | 19075 |         | -1.0(.5) |          |          | 423      |
| 17595 | 1.5(.3) |          |          |          | 45       | 50815 | 1.7(.5) |          |          |          | 45       |
| 17595 | 1.5(.4) |          | -3.7(.4) |          | 423      | 50815 | 1.9(.4) |          |          |          | 132      |
| 49935 |         | -7(.5)   |          |          | 132      | 50925 |         | -1.3(.4) |          |          | 1295     |
| 49935 |         | -1.4(.5) |          |          | 1295     | 50925 |         | -2.0(.6) |          |          | 1302     |
| 49985 | 1.5(.4) |          |          |          | 45       | 19395 | 1.5(.4) |          |          |          | 45       |
| 49985 |         |          |          | -6.7(.8) | 1302     | 19395 | 1.8(.4) |          |          |          | 132      |
| 17745 | 1.3(.4) |          |          |          | 132      | 50955 | 1.6(.4) |          |          |          | 45       |
| 17745 | 1.6(.4) |          |          |          | 423      | 50955 | 1.9(.4) |          |          |          | 132      |
| 17785 |         | -7(.4)   |          |          | 45       | 19465 | 1.3(.5) |          |          |          | 45       |
| 17785 |         |          | -3.5(.4) |          | 423      | 19465 | 1.7(.4) |          |          |          | 132      |
| 50155 |         | -5(.5)   | -3.1(.5) |          | 45       | 51075 | 1.7(.4) |          |          |          | 45       |
| 50155 |         |          | -3.8(.6) |          | 1302     | 51075 |         | -6(.5)   |          |          | 132      |
| 50185 | 1.1(.4) |          |          |          | 132      | 51105 |         |          |          | -6.1(.7) | 1295     |
| 50185 | *       |          | -3.9(.5) |          | 423      | 51105 |         |          | -3.5(.6) |          | 1302     |
| 18105 | 2.0(.5) |          |          |          | 45       | 19795 | 1.7(.4) |          |          |          | 45       |
| 18105 | 1.5(.4) |          |          |          | 132      | 19795 | 1.4(.4) |          |          |          | 132      |
| 18105 | 1.8(.5) |          |          |          | 423      | 19825 | 1.4(.5) |          |          |          | 45       |
| 18135 | 1.6(.4) |          | -3.3(.4) |          | 45       | 19825 | 1.1(.3) |          |          |          | 132      |
| 18135 |         |          | -3.3(.5) |          | 132      | 19905 | 1.4(.5) |          |          |          | 45       |
| 18205 | 1.4(.4) | -9(.4)   |          |          | 132      | 19905 | 1.2(.4) |          |          |          | 132      |
| 18205 |         | -4(.5)   |          |          | 423      | 51465 |         | -7(.6)   | -3.6(.4) |          | 45       |
| 50295 | 1.5(.4) |          |          |          | 132      | 51465 |         |          |          |          | 132      |
| 50295 | 1.4(.4) | -1.7(.5) |          |          | 1295     | 51475 | 2.0(.4) |          |          |          | 45       |
| 18405 | 1.6(.4) |          |          |          | 45       | 51475 | 1.6(.4) |          |          |          | 132      |
| 18405 | 1.9(.4) |          |          |          | 423      | 51495 | *       | -4(.4)   |          |          | 423      |
| 50445 | *       | -1(.4)   |          |          | 423      | 51495 |         | -1.7(.5) |          |          | 1295     |
| 50445 |         | -1.5(.5) |          |          | 1295     |       |         |          |          |          |          |

MULTIPLY OBSERVED SOURCES

| GL    | M(4)    | M(11)    | M(20)    | M(27) | J.D.     | GL    | M(4)    | M(11)    | M(20)    | M(27) | J.D.     |
|-------|---------|----------|----------|-------|----------|-------|---------|----------|----------|-------|----------|
| 51525 | .       | -1.6(.4) | -3.0(.5) |       | 2441000+ | 21205 |         | -1.6(.4) | -2.8(.4) |       | 2441000+ |
| 51525 |         | -1.4(.4) |          |       | 548      | 21205 |         | -1.6(.4) |          |       | 45       |
| 20215 |         | -1.1(.4) |          |       | 1295     |       |         |          |          |       | 132      |
| 20215 |         | -1.1(.4) |          |       | 45       | 21255 | 1.3(.4) |          |          |       | 45       |
| 20215 |         | -1.1(.4) |          |       | 423      | 21255 | 1.4(.4) |          |          |       | 132      |
| 20215 |         | -1.1(.4) |          |       | 1302     |       |         |          |          |       | 45       |
| 20295 | 1.4(.4) |          |          |       | 45       | 52265 |         | -2.3(.5) |          |       | 132      |
| 20295 | 1.3(.4) |          |          |       | 132      | 52265 |         | -2.3(.5) |          |       | 45       |
| 51635 | 1.2(.4) |          |          |       | 132      | 21405 |         | -3.1(.4) |          |       | 45       |
| 51635 | 1.2(.4) |          |          |       | 335      | 21405 |         | -2.8(.5) |          |       | 548      |
| 51695 | 1.3(.4) | -1.5(.5) |          |       | 423      | 21415 | 1.7(.4) |          |          |       | 45       |
| 51695 | 1.3(.4) | -1.5(.4) | -3.1(.5) |       | 1295     | 21415 | 1.3(.4) |          |          |       | 132      |
| 51785 | 1.6(.4) |          |          |       | 45       | 21445 | 1.6(.4) |          |          |       | 423      |
| 51785 | 1.6(.4) |          |          |       | 132      | 21445 | 1.7(.4) |          |          |       | 548      |
| 51775 | 2.0(.4) | -1.2(.4) | -2.8(.5) |       | 423      | 52355 |         | -1.0(.4) |          |       | 45       |
| 51775 | 2.0(.4) | -1.2(.4) | -2.4(.5) |       | 1295     | 52355 |         | -1.6(.5) |          |       | 132      |
| 20495 |         | -1.4(.5) |          |       | 45       | 52485 | 1.7(.4) |          |          |       | 45       |
| 20495 |         | -1.3(.4) |          |       | 132      | 52485 |         | -3.5(.5) |          |       | 548      |
| 51805 | 1.6(.4) | -2.3(.6) | -3.1(.5) |       | 423      | 52535 | 1.5(.4) |          |          |       | 1295     |
| 51805 | 1.6(.4) | -2.3(.6) | -3.1(.5) |       | 1295     | 52535 |         | -2.3(.5) | -2.8(.6) |       | 423      |
| 51885 | 1.3(.4) | -2.2(.6) |          |       | 1302     | 52585 |         | -1.1(.6) |          |       | 1302     |
| 51885 | 1.3(.4) | -2.2(.6) |          |       | 45       | 52585 |         | -1.1(.6) |          |       | 45       |
| 20555 | 1.4(.4) |          |          |       | 132      | 52825 |         | -1.1(.4) |          |       | 132      |
| 20555 | 1.4(.4) |          |          |       | 45       | 52825 |         | -1.1(.4) |          |       | 45       |
| 51915 | 1.5(.4) | -1.8(.4) |          |       | 132      | 52825 |         | -1.1(.4) |          |       | 548      |
| 51915 | 1.5(.4) | -1.8(.4) |          |       | 45       | 22095 | 1.6(.4) |          |          |       | 45       |
| 20735 | 1.5(.4) | -1.8(.4) |          |       | 132      | 22095 | 1.6(.4) |          |          |       | 132      |
| 20735 | 1.5(.4) | -1.8(.4) |          |       | 45       | 52695 |         | -3.1(.4) | -2.7(.5) |       | 45       |
| 52005 |         | -1.4(.4) |          |       | 132      | 52695 |         | -3.1(.4) |          |       | 1295     |
| 52005 |         | -1.4(.4) |          |       | 45       | 22125 | 1.1(.4) |          |          |       | 45       |
| 52015 | 1.4(.4) | -1.3(.4) |          |       | 132      | 22125 | 1.4(.5) |          |          |       | 548      |
| 52015 | 1.4(.4) | -1.3(.4) |          |       | 45       | 52735 | 1.4(.4) |          |          |       | 45       |
| 52045 | 1.7(.4) | -1.1(.4) |          |       | 132      | 52735 |         | -1.0(.4) |          |       | 548      |
| 52045 | 1.7(.4) | -1.1(.4) |          |       | 45       | 22265 |         | -1.3(.5) |          |       | 45       |
| 52055 | 1.4(.4) | -1.0(.4) |          |       | 132      | 22265 |         | -1.2(.4) |          |       | 132      |
| 52055 | 1.4(.4) | -1.0(.4) |          |       | 45       | 52755 |         | -3.1(.5) |          |       | 45       |
| 52085 |         |          | -3.2(.5) |       | 132      | 52755 |         | -1.1(.4) |          |       | 132      |
| 52085 |         |          | -3.0(.5) |       | 45       | 22315 | 1.5(.4) |          |          |       | 45       |
|       |         |          |          |       | 1295     | 22315 | 1.6(.4) |          |          |       | 548      |

MULTIPLY OBSERVED SOURCES

| GL    | M(4)    | M(11)    | M(20)    | M(27)    | J.D.     | GL    | M(4)    | M(11)    | M(20)    | M(27)    | J.D.     |
|-------|---------|----------|----------|----------|----------|-------|---------|----------|----------|----------|----------|
|       |         |          |          |          | 2441000+ |       |         |          |          |          | 2441000+ |
| 2237S | 1.4(.4) |          |          |          | 45       | 2291S | 1.8(.4) |          |          |          | 45       |
| 2237S | 1.5(.4) |          |          |          | 132      | 2291S | 1.8(.4) |          |          |          | 132      |
| 5287S | 1.1(.4) |          |          |          | 45       | 2294S | 1.5(.4) |          |          |          | 45       |
| 5287S |         | -1.2(.8) |          |          | 1295     | 2294S | 1.7(.4) |          |          |          | 548      |
| 5289S | 1.6(.4) |          |          |          | 45       | 2307S |         |          | -2.5(.5) |          | 45       |
| 5289S |         | -1.6(.5) |          |          | 132      | 2307S |         |          | -3.0(.5) |          | 548      |
| 5296S |         |          |          |          | 45       | 5332S |         | -1.4(.4) |          |          | 45       |
| 5296S | 1.2(.3) | -1.7(.4) | -2.6(.8) |          | 132      | 5332S |         |          | -3.3(.4) |          | 423      |
| 2250S | 1.4(.4) |          |          |          | 45       | 5332S | 1.3(.4) | -1.3(.8) |          |          | 548      |
| 2250S | 1.9(.4) |          |          |          | 132      | 5332S |         |          |          |          | 1295     |
| 5298S |         | -1.5(.8) |          |          | 45       | 5337S |         |          | -3.2(.5) |          | 423      |
| 5298S |         |          |          |          | 548      | 5337S |         |          | -3.0(.5) |          | 1295     |
| 5299S | 2.2(.4) |          |          |          | 45       | 5338S |         |          | -2.2(.6) |          | 45       |
| 5299S |         |          | -3.7(.4) |          | 548      | 5338S | 1.2(.3) |          |          |          | 548      |
| 2257S |         |          |          |          | 45       | 5339S | 1.1(.4) |          |          | -6.4(.8) | 1295     |
| 2257S |         | -1.8(.4) |          |          | 132      | 5339S |         |          |          |          | 45       |
| 2262S | 1.6(.4) |          |          |          | 45       | 2322S | 1.7(.4) |          |          |          | 548      |
| 2262S | 2.2(.4) |          |          |          | 132      | 2322S | 1.8(.4) |          | -3.1(.8) |          | 1302     |
| 2263S | 1.6(.4) |          |          |          | 45       | 2337S |         | -1.1(.4) |          |          | 45       |
| 2263S | 1.8(.4) |          |          |          | 548      | 2337S |         | -1.4(.5) |          |          | 548      |
| 5308S | 1.4(.4) |          |          |          | 45       | 2337S |         | -1.3(.5) |          |          | 1295     |
| 5308S |         | -1.0(.8) |          |          | 548      | 2339S | 1.5(.4) |          |          |          | 45       |
| 5309S |         |          |          |          | 45       | 2339S | 1.5(.4) |          |          |          | 548      |
| 5309S |         | -1.8(.5) |          |          | 45       | 2342S | 1.5(.3) | -3(.4)   |          |          | 45       |
| 5309S |         |          | -2.9(.5) |          | 423      | 2342S | 1.3(.4) | -5(.4)   |          |          | 548      |
| 2269S | 1.4(.4) |          |          |          | 45       | 5350S | 1.4(.4) | -1.4(.5) |          |          | 45       |
| 2269S | 1.4(.4) |          |          |          | 548      | 5350S |         |          |          |          | 1295     |
| 5315S |         | -1.6(.4) | -3.1(.5) |          | 548      | 5356S | 1.2(.4) | -1.3(.4) |          |          | 45       |
| 5315S |         |          | -2.8(.5) |          | 1295     | 5356S |         |          |          |          | 548      |
| 5315S |         |          |          | -6.4(.7) | 1302     | 2355S |         |          | -2.5(.5) |          | 45       |
| 5316S | 1.3(.3) |          |          |          | 45       | 2355S |         |          | -3.4(.5) |          | 423      |
| 5316S |         | -1.5(.4) |          |          | 132      | 5358S |         |          |          |          | 548      |
| 5317S | 1.3(.4) |          |          |          | 45       | 5358S |         |          | -3.1(.5) |          | 1302     |
| 5317S |         |          | -2.2(.6) |          | 1295     | 5358S |         |          | -3.0(.8) |          | 45       |
| 2273S | 1.9(.4) |          |          |          | 423      | 2364S | 1.8(.4) |          |          |          | 548      |
| 2273S | 1.7(.4) |          |          |          | 548      | 2364S | 1.5(.4) |          |          |          | 45       |
| 5322S | 1.5(.4) |          |          |          | 45       | 5362S | 1.7(.4) | -6(.8)   |          |          | 548      |
| 5322S |         |          | -2.8(.4) |          | 548      | 5362S |         |          |          |          | 45       |
| 5322S |         | -2.8(.5) |          |          | 1302     |       |         |          |          |          | 548      |

MULTIPLY OBSERVED SOURCES

| GL    | M(4)    | M(11)    | M(20)    | M(27) | J.D.     | GL    | M(4)    | M(11)    | M(20)    | M(27) | J.D. |
|-------|---------|----------|----------|-------|----------|-------|---------|----------|----------|-------|------|
| 53635 |         |          |          |       | 2441000+ | 24515 | 1.7(.5) |          |          |       | 45   |
| 53635 | 2.1(.4) | -1.6(.4) |          |       | 132      | 24515 | 1.3(.3) |          |          |       | 548  |
| 23725 | 1.6(.4) |          |          |       | 45       | 54265 |         |          |          |       | 45   |
| 23725 | 1.7(.4) |          |          |       | 423      | 54265 | 1.2(.4) | -1.8(.4) |          |       | 548  |
| 23725 | 1.7(.4) |          |          |       | 548      | 54265 |         | -1.5(.5) |          |       | 1295 |
| 53685 |         |          |          |       | 423      | 54385 |         |          | -2.9(.4) |       | 45   |
| 53685 |         | -9(.5)   |          |       | 1295     | 54385 |         | -1.9(.4) |          |       | 548  |
| 23775 |         | -5(.6)   |          |       | 45       | 54385 |         | -1.8(.5) |          |       | 1295 |
| 23775 |         | -2(.4)   |          |       | 45       | 24735 | 1.8(.8) |          |          |       | 45   |
| 23775 |         | -9(.5)   |          |       | 548      | 24735 | 1.5(.4) |          |          |       | 548  |
| 53745 |         |          |          |       | 45       | 54435 | 1.2(.4) |          |          |       | 45   |
| 53745 |         | -8(.5)   | -3.0(.5) |       | 1295     | 54435 |         |          | -2.8(.4) |       | 548  |
| 23855 |         | -1.6(.4) |          |       | 45       | 54455 |         |          |          |       | 45   |
| 23855 |         | -1(.5)   |          |       | 423      | 54455 |         |          | -2.8(.5) |       | 548  |
| 23855 |         | -8(.4)   |          |       | 45       | 54455 |         |          | -2.8(.5) |       | 1295 |
| 23665 | 1.5(.4) |          |          |       | 45       | 54535 |         |          |          |       | 45   |
| 23665 | 2.1(.5) |          | -2.8(.5) |       | 423      | 54535 |         |          | -2.7(.5) |       | 1295 |
| 23875 | 1.9(.8) |          |          |       | 45       | 54535 |         |          | -2.8(.5) |       | 45   |
| 23875 | 1.8(.4) |          |          |       | 548      | 54545 | 1.8(.4) |          |          |       | 45   |
| 53755 | 1.8(.8) |          | -2.7(.5) |       | 423      | 54545 |         | -1.3(.5) |          |       | 1295 |
| 53755 |         |          | -2.9(.5) |       | 548      | 54565 | 1.3(.4) |          |          |       | 423  |
| 53935 |         | -1.2(.4) |          |       | 45       | 54565 |         | -1.2(.4) |          |       | 548  |
| 53935 |         |          | -2.0(.9) |       | 548      | 24995 | 1.8(.8) |          |          |       | 45   |
| 53935 |         |          | -8.3(.6) |       | 1295     | 24995 | 1.8(.4) |          |          |       | 548  |
| 53935 |         |          |          |       | 45       | 54695 |         |          |          |       | 45   |
| 53935 |         |          |          |       | 1302     | 54695 |         |          |          |       | 1295 |
| 53985 | 1.8(.4) |          | -3.0(.6) |       | 45       | 54755 |         |          |          |       | 45   |
| 53985 |         | -8(.4)   |          |       | 423      | 54755 |         |          |          |       | 548  |
| 24195 |         | -1.1(.4) |          |       | 657      | 25185 |         |          |          |       | 45   |
| 24195 |         |          |          |       | 45       | 25185 |         |          |          |       | 1295 |
| 54075 |         |          |          |       | 45       | 25255 |         |          |          |       | 45   |
| 54075 |         |          |          |       | 1295     | 25255 |         |          |          |       | 548  |
| 54105 | 1.8(.4) |          | -2.7(.5) |       | 45       | 54845 |         |          |          |       | 45   |
| 54105 |         |          | -2.6(.5) |       | 1295     | 54845 |         |          |          |       | 1295 |
| 54115 |         |          | -2.7(.5) |       | 45       | 25395 | 1.7(.4) |          |          |       | 45   |
| 54115 |         |          | -6.4(.6) |       | 1295     | 25395 | 1.7(.4) |          |          |       | 548  |
| 54135 | 1.3(.4) |          |          |       | 548      | 25435 |         |          |          |       | 657  |
| 54135 |         | -1.5(.4) | -5.3(.8) |       | 1295     | 25435 | 1.4(.4) |          |          |       | 548  |
| 54165 |         |          |          |       | 423      | 25455 | 1.8(.4) |          |          |       | 45   |
| 54165 |         | -1.2(.4) |          |       | 548      | 25455 | 1.7(.4) |          |          |       | 548  |

MULTIPLY OBSERVED SOURCES

| QL    | M(4)    | M(11)    | M(20)    | M(27) | J.D.     | GL    | M(4)    | M(11)    | M(20)    | M(27)    | J.D.     |
|-------|---------|----------|----------|-------|----------|-------|---------|----------|----------|----------|----------|
|       |         |          |          |       | 2441000+ |       |         |          |          |          | 2441000+ |
| 5493S | *       | -1.8(.5) |          |       | 548      | 5548S | *       | -1.0(.4) |          |          | 45       |
| 5493S |         | -1.5(.5) |          |       | 1295     | 5548S |         | -1.1(.6) |          |          | 657      |
| 2548S | 1.9(.4) |          |          |       | 45       | 5552S |         |          |          | -6.3(.6) | 1295     |
| 2548S | 1.7(.4) |          |          |       | 548      | 5552S |         |          |          | -6.8(.7) | 1302     |
| 5501S |         | -1.0(.4) |          |       | 45       | 5554S | 1.3(.5) |          |          |          | 657      |
| 5501S |         | -1.7(.5) | -3.8(.5) |       | 1295     | 5554S |         |          | -2.5(.5) |          | 1295     |
| 5507S |         |          | -2.8(.6) |       | 45       | 5566S | 1.4(.4) |          |          |          | 548      |
| 5507S | *       | -1.5(.4) |          |       | 657      | 5566S | 1.5(.5) |          |          |          | 657      |
| 5508S | 1.2(.4) |          |          |       | 132      | 2693S |         | -9(.4)   |          |          | 45       |
| 5508S | *       |          | -3.9(.5) |       | 548      | 2693S | 1.5(.4) |          |          |          | 423      |
| 5516S | 1.7(.4) |          |          |       | 548      | 2693S | 1.4(.4) |          |          |          | 548      |
| 5516S |         |          | -2.6(.5) |       | 1295     | 2705S | 1.5(.4) |          |          |          | 132      |
| 5517S |         | -8(.5)   |          |       | 45       | 2705S | 1.5(.4) |          |          |          | 548      |
| 5517S | *       |          | -4(.5)   |       | 423      | 5580S |         | -1.5(.4) | -2.5(.5) |          | 335      |
| 5517S |         |          | 1.0(.5)  |       | 657      | 5580S |         |          | -3.0(.4) |          | 423      |
| 5519S |         |          | -3.2(.5) |       | 45       | 2724S |         | -1.0(.4) |          |          | 335      |
| 5519S |         | -4(.4)   |          |       | 548      | 2724S | *       | -9(.5)   |          |          | 548      |
| 5519S |         | -2(.6)   |          |       | 657      | 2724S |         | -1.2(.4) |          |          | 657      |
| 5523S | 1.7(.4) |          |          |       | 45       | 5586S |         | -8(.4)   |          |          | 548      |
| 5523S | 1.7(.5) |          | -4.0(.5) |       | 657      | 5586S | *       |          | -3.5(.6) |          | 657      |
| 5524S |         |          | -3.2(.4) |       | 423      | 5586S |         |          | -2.6(.6) |          | 1295     |
| 5524S | 2.3(.5) |          |          |       | 657      | 5590S | 1.5(.4) |          |          |          | 45       |
| 5525S | 1.7(.4) |          |          |       | 557      | 5590S |         |          | -3.5(.4) |          | 548      |
| 5525S | *       | -1.9(.4) | -3.1(.6) |       | 1302     | 5597S |         | -1.6(.4) |          |          | 132      |
| 2628S |         | -1.0(.4) |          |       | 45       | 5597S |         | -1.6(.4) |          |          | 1295     |
| 2628S |         |          |          |       | 657      | 5599S |         | -3(.4)   |          |          | 548      |
| 2634S |         | -8(.4)   |          |       | 45       | 5599S |         | -9(.4)   |          |          | 657      |
| 2634S |         | -3(.4)   |          |       | 548      | 5603S | 1.4(.4) |          |          |          | 657      |
| 5534S | 1.7(.4) |          |          |       | 45       | 5603S |         | -7(.4)   | -3.1(.5) |          | 1295     |
| 5534S | 1.2(.4) |          |          |       | 657      | 5615S | 1.5(.4) |          |          |          | 657      |
| 5535S |         | -8(.5)   |          |       | 548      | 5615S |         |          | -3.7(.6) |          | 1302     |
| 5535S |         | -1.3(.4) |          |       | 1295     | 5617S | 1.0(.4) |          |          |          | 657      |
| 5538S |         | -9(.5)   |          |       | 45       | 5617S |         |          | -2.6(.5) |          | 1295     |
| 5538S | *       | -1.9(.5) |          |       | 423      | 2774S | 1.7(.4) |          |          |          | 548      |
| 5538S |         |          | -2.4(.5) |       | 548      | 2774S | 1.5(.4) |          |          |          | 657      |
| 2642S | 1.9(.4) |          |          |       | 45       | 5623S | 1.6(.5) | -3(.4)   | -3.2(.6) |          | 548      |
| 2642S | 1.2(.4) |          |          |       | 548      | 5623S |         |          |          |          | 657      |
| 2656S |         |          | -2.4(.4) |       | 45       | 2778S | *       |          | -3.5(.4) |          | 335      |
| 2656S |         |          | -4.5(.5) |       | 657      | 2778S |         |          | -4.1(.4) |          | 423      |

MULTIPLY OBSERVED SOURCES

| GL    | M(4)    | M(11)    | M(20)    | M(27) | J.D.     | GL    | M(4)    | M(11)    | M(20)    | M(27) | J.D.     |
|-------|---------|----------|----------|-------|----------|-------|---------|----------|----------|-------|----------|
| 56375 |         |          |          |       | 2441000+ | 51895 | 1.7(.4) |          |          |       | 2441000+ |
| 56375 | 1.6(.4) | -1.3(.4) |          |       | 423      | 56895 |         |          | -3.1(.8) |       | 657      |
| 56295 |         |          | -3.8(.4) |       | 548      | 56925 |         |          | -4.0(.5) |       | 657      |
| 56295 |         |          | -3.1(.5) |       | 1295     | 56925 |         |          | -2.9(.8) |       | 1302     |
| 27375 |         |          | -3.7(.4) |       | 335      | 29205 | 1.2(.4) |          |          |       | 132      |
| 27975 | 1.7(.8) |          |          |       | 548      | 29205 | 1.2(.4) |          |          |       | 548      |
| 27975 | 1.6(.4) |          |          |       | 657      | 56985 |         | -2.5(.4) |          |       | 172      |
| 28015 | 1.4(.4) |          |          |       | 132      | 56985 | 1.6(.4) |          |          |       | 657      |
| 28015 | 1.4(.4) |          |          |       | 657      | 29275 |         |          | -3.3(.4) |       | 335      |
| 28095 | 1.6(.4) | -1.8(.4) | -3.4(.8) |       | 335      | 29275 |         |          | -3.0(.4) |       | 423      |
| 28095 |         |          |          |       | 423      | 29375 | 1.6(.4) |          |          |       | 335      |
| 28095 | 1.7(.5) |          |          |       | 548      | 29375 | 1.4(.5) |          |          |       | 657      |
| 56445 | 1.8(.4) |          | -2.7(.8) |       | 45       | 57095 | 1.7(.4) |          |          |       | 335      |
| 56445 |         |          |          |       | 423      | 57095 |         | -2.8(.6) |          |       | 1302     |
| 56445 |         | -1.6(.4) |          |       | 548      | 29505 | 1.4(.4) |          |          |       | 335      |
| 28145 | 1.6(.4) |          | -2.8(.5) |       | 132      | 29505 | 1.8(.4) |          |          |       | 657      |
| 28145 | 2.0(.4) |          |          |       | 335      | 57135 | 1.2(.4) |          | -4.3(.8) |       | 548      |
| 28295 | 1.2(.4) |          |          |       | 45       | 57135 |         |          |          |       | 657      |
| 28295 | 1.6(.4) |          | -2.9(.8) |       | 132      | 29795 | 1.6(.4) |          |          |       | 335      |
| 28295 |         |          |          |       | 423      | 29795 | 1.8(.5) |          |          |       | 657      |
| 56585 | 1.8(.4) | -3(.5)   |          |       | 132      | 29805 | 1.9(.4) |          |          |       | 132      |
| 56585 |         |          |          |       | 548      | 29805 | 1.7(.4) |          |          |       | 335      |
| 28345 | 1.6(.4) |          |          |       | 335      | 29965 | 1.3(.4) |          |          |       | 132      |
| 28345 | 1.2(.4) |          |          |       | 657      | 29965 | 1.4(.3) | -1.8(.8) |          |       | 335      |
| 28415 | 1.7(.4) |          |          |       | 335      | 30025 |         | -1.6(.4) |          |       | 335      |
| 28415 | 1.0(.4) |          |          |       | 548      | 30025 | 1.1(.4) | -1.7(.4) |          |       | 657      |
| 28745 | 1.9(.4) |          | -3.9(.4) |       | 132      | 30035 | 1.5(.4) |          |          |       | 335      |
| 28745 |         |          |          |       | 548      | 30035 | 1.8(.5) |          |          |       | 657      |
| 28785 | 1.9(.4) |          |          |       | 335      | 30145 | 1.5(.4) |          |          |       | 335      |
| 28785 |         | -1.7(.4) |          |       | 423      | 30145 | 2.2(.6) |          |          |       | 657      |
| 28785 | 1.8(.8) |          |          |       | 548      | 30215 |         | -1.3(.4) | -2.7(.4) |       | 548      |
| 28975 | 1.5(.4) | -1.7(.4) |          |       | 335      | 30215 |         |          | -4.6(.5) |       | 657      |
| 28975 |         | -1.3(.4) |          |       | 657      | 30255 | 1.4(.4) |          |          |       | 548      |
| 56855 | 1.6(.4) |          |          |       | 335      | 30255 | 1.3(.5) |          |          |       | 657      |
| 56855 | 2.3(.8) |          | -3.6(.5) |       | 657      | 30275 | 1.7(.4) |          |          |       | 335      |
| 29025 | 1.5(.4) |          |          |       | 548      | 30275 | 1.2(.5) |          |          |       | 657      |
| 29025 | 1.9(.4) |          |          |       | 657      |       |         |          |          |       |          |



MULTIPLY OBSERVED SOURCES

| GL    | M(4)    | M(11)    | M(20)    | M(27) | J.D.     | GL    | M(4)    | M(11)    | M(20) | M(27) | J.D.     |
|-------|---------|----------|----------|-------|----------|-------|---------|----------|-------|-------|----------|
|       |         |          |          |       | 2441000+ |       |         |          |       |       | 2441000+ |
| 30325 | 1.7(.4) |          |          |       | 335      | 31615 | *       | -1.6(.4) | *     |       | 132      |
| 30325 |         | -9(.4)   | -3 1(.4) |       | 423      | 31615 |         | -4(.5)   |       |       | 335      |
| 30325 | *       | -1.9(.6) |          |       | 548      | 57965 |         | -1.7(.4) |       |       | 132      |
| 30355 | 1.5(.4) |          |          |       | 335      | 57965 |         | -2.2(.5) |       |       | 1302     |
| 30355 | 1.2(.4) |          |          |       | 657      | 31845 | 1.5(.4) |          | *     |       | 132      |
| 30375 | 1.4(.4) |          |          |       | 132      | 31845 | 1.6(.4) |          |       |       | 335      |
| 30375 | 1.5(.4) |          |          |       | 657      |       |         |          |       |       |          |
| 30605 | 1.9(.4) |          |          |       | 548      |       |         |          |       |       |          |
| 30605 | 1.6(.4) |          |          |       | 657      |       |         |          |       |       |          |
| 57485 | 1.6(.5) |          |          |       | 657      |       |         |          |       |       |          |
| 57485 |         |          | -3.8(.6) |       | 1302     |       |         |          |       |       |          |
| 30535 |         |          | -3.3(.5) |       | 335      |       |         |          |       |       |          |
| 30535 | *       |          | -4.2(.5) |       | 657      |       |         |          |       |       |          |
| 30705 |         |          | -3.3(.5) |       | 335      |       |         |          |       |       |          |
| 30705 |         |          | -3.7(.5) |       | 657      |       |         |          |       |       |          |
| 57525 | 1.4(.4) | -1.1(.5) |          |       | 335      |       |         |          |       |       |          |
| 57525 |         |          |          |       | 657      |       |         |          |       |       |          |
| 30775 | 1.7(.4) |          |          |       | 132      |       |         |          |       |       |          |
| 30775 | 1.4(.4) |          |          |       | 657      |       |         |          |       |       |          |
| 30905 | 1.8(.4) |          |          |       | 132      |       |         |          |       |       |          |
| 30905 | 1.5(.5) |          |          |       | 657      |       |         |          |       |       |          |
| 57625 | 1.8(.5) |          |          |       | 335      |       |         |          |       |       |          |
| 57625 | 1.7(.4) |          |          |       | 657      |       |         |          |       |       |          |
| 30925 | 1.3(.4) |          |          |       | 548      |       |         |          |       |       |          |
| 30925 | 1.3(.5) | -1.1(.4) |          |       | 657      |       |         |          |       |       |          |
| 30925 |         | -9(.7)   |          |       | 1295     |       |         |          |       |       |          |
| 31035 | 1.4(.4) |          |          |       | 335      |       |         |          |       |       |          |
| 31035 | 1.7(.4) |          |          |       | 657      |       |         |          |       |       |          |
| 31175 | 1.8(.5) |          |          |       | 132      |       |         |          |       |       |          |
| 31175 | 1.7(.4) |          |          |       | 335      |       |         |          |       |       |          |
| 31325 | 1.4(.4) |          |          |       | 132      |       |         |          |       |       |          |
| 31325 | 1.4(.5) |          |          |       | 657      |       |         |          |       |       |          |
| 31425 |         | -5(.5)   |          |       | 132      |       |         |          |       |       |          |
| 31425 |         | -7(.4)   |          |       | 657      |       |         |          |       |       |          |
| 57865 | 1.8(.4) | -1.4(.4) |          |       | 132      |       |         |          |       |       |          |
| 57865 |         |          |          |       | 423      |       |         |          |       |       |          |
| 31565 | *       | -9(.4)   |          |       | 548      |       |         |          |       |       |          |
| 31565 |         | -4(.5)   |          |       |          |       |         |          |       |       |          |

## Appendix C

Remarks

# REMARKS

|       |  |
|-------|--|
| 40055 | OB+504   |
| 263   | OB+313   |
| 745   | BRIGHT NES   |
| 40525 | VR023.00.05.4C+23.03.PMS0044+23                                      |
| 1785  | OC+118   |
| 41683 | MSH 02-204   |
| 42205 | LHC067.0A082.4C-00.13.GC0240-00.PMS0240-00.NEAO112.00-067.ESH 02-014 |
| 42385 | B2 0257+29A  |
| 4243  | B2.3 0300+38   |
| 42553 | MC1 0308-219   |
| 4845  | B2 0319+29   |
| 42815 | OE-148   |
| 43445 | 4C+57.10.0F+528  |
| 43455 | OF+143   |
| 43525 | MC1 0429-208   |
| 43863 | MC1 0450-221   |
| 43953 | OG+311   |
| 7015  | OG-113   |
| 7835  | 4C-05.21   |
| 44285 | MGC 1990   |
| 44435 | B2.3 0541+37   |
| 44855 | OM-127   |
| 9515  | IC 0448  |
| 45065 | OM+351   |
| 45195 | DA218  |
| 1048  | 4C+08.24   |
| 45535 | PKS0701-05   |
| 45825 | MSH 07-105   |
| 11325 | 01-046   |
| 46115 | B2.2 0731+28A  |
| 46125 | PRE358   |
| 46135 | DCC234.8+00.8.PMS0732-18   |
| 46305 | 01+571.1   |
| 46315 | LHC210   |
| 46335 | 01-374   |
| 11945 | 4CP10.24   |
| 12035 | 01-286   |
| 46905 | 0J-237.9   |
| 46985 | 0J+447   |
| 13705 | OK+184   |
| 47555 | 4C+05.40   |
| 47715 | 4CP12.26C  |
| 47745 | DCC283.3-01.0.GS 283.3-01.0.SG 283.3-01.0.SG 283.3-01.1              |
| 47775 | SG 283.5-01.0.DCC283.5-01.0.GS 283.5-01.0                            |
| 47935 | SG 287.9-01.0  |
| 47995 | TD 291.1-02.1  |
| 48085 | TD 292.1-00.5  |
| 48405 | OM+032   |
| 15535 | HM 1225-08   |
| 48525 | MGC 4530   |
| 48775 | MSH 13-001   |
| 48785 | 5C4.182.B2.2 1304+278.OP+207.7                                       |
| 48815 | TD 305.2-00.4  |
| 49025 | DTG308.1-00.4  |
| 49035 | OP-357.HM 1334-33.PMS1334-33   |
| -8125 | DTG308.1+00.2  |

REMARKS

|       |   |
|-------|---|
| 4963S | 6C+27.29, HZ.2 1822+27, H+1421+27, VR(27.16, 02, 00+236                           |
| 4961S | MGC 5692, MSW 14+010  |
| 4963S | PA51467-433   |
| 4972S | OTG316.9-00.1   |
| 4978S | OTG320.3+00.6   |
| 4981S | OTG320.1-00.5, GS 320.1-00.5, SG 320.1-00.5                                       |
| 5020S | MCI 1351-20K  |
| 5052S | MCM 16-006  |
| 5060S | SMARP. 27   |
| 5093S | OT-317  |
| 5093S | DM 320.6-00.1, ADG359.4-00.1, 320359.4-00.1, M+1559.4-00.1                        |
| 5170S | FJ 1754-23  |
| 5186S | 32.2 180+28"  |
| 5207S | LMM 14  |
| 5202S | SMARP. 32   |
| 5212S | OU-020.6  |
| 5228S | CO 016.6-00.7, ADG316.6-00.3  |
| 5248S | SS 023.1+00.6, SO 023.1+00.6  |
| 5263S | SG 025.3+00.7, ADG125.3+00.3, 025.37  |
| 5268S | SG 025.3-00.1   |
| 5288S | MR1.07  |
| 5289S | MS+ 18-010  |
| 5293S | 3K 029.7-00.2, ADG029.7-00.2, MRA050, DM029.7-00.2, SG 029.7-00.2, RES75.4C-03.70 |
| 5294S | OU+23   |
| 5299S | 3K 030.4-00.2, SG 030.4-00.2, ADG030.2-00.2                                       |
| 5297S | OU+475  |
| 5310S | MR 04, ADG32.9-00.0, CX-033.0+00.1, PK 032.9+00.0                                 |
| 5313S | MM 42   |
| 5345S | MR 42, EMC042.1-00.6, ADG042.1-00.6   |
| 5345S | 82.3 1907+359   |
| 5382S | 82.3 1908+36.4C, 36.32  |
| 5337S | MR 49, OM044.2+00.1   |
| 5349S | OM+316, P2 1909+32  |
| 5361S | OC053.2+00.2, ADG053.2+00.2   |
| 5384S | BRIGHT NFB  |
| 5439S | 82 1950+290   |
| 5518S | OM+015.1  |
| 5402S | MR104T NFB  |
| 5525S | OM+318  |
| 5545S | ADG074.4+00.7, DM074.6+00.6   |
| 5516S | MGC 6940  |
| 5619S | 82.3 2125+36f   |
| 5653S | 82-203.1  |
| 5917S | PK52228-319   |
| 5739S | PK52303-304, 02-306   |
| 5742S | MC+13.07  |
| 3161S | MGC 7768  |
| 5709S | 82 2349+29  |